

# Service Manual

• KE-2700SDK



ORDER NO.  
**CRT1325**

CASSETTE CAR STEREO WITH FM/MW ELECTRONIC TUNER

**KE-2700SDK**

WG

**KE-2700B** IT

**KE-1700SDK**

WG

**KE-1700B** IT

CASSETTE CAR STEREO WITH FM/MW/LW ELECTRONIC TUNER

**KE-2730B** EW

**KE-1730B** EW

**Note:**

- See the separate manual CX-197(CRT1328) for the cassette mechanism description.

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**PIONEER ELECTRONIC CORPORATION**

4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan

**PIONEER ELECTRONICS SERVICE INC.** P.O. Box 1760, Long Beach, California 90801 U.S.A.

**PIONEER ELECTRONICS OF CANADA, INC.** 505 Cochrane Drive, Markham, Ontario L3R 8E3 Canada

**PIONEER ELECTRONIC [EUROPE] N.V.** Keetberglaan 1, 2740 Beveren, Belgium

**PIONEER ELECTRONICS AUSTRALIA PTY. LTD.** 178-184 Boundary Road, Braeside, Victoria 3195, Australia TEL: [03] 580-9911

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FK DEC. 1990 Printed in Japan

# SAFETY INFORMATION

## WARNING!

Lithium batteries. Danger of explosion. Replacement must be done by qualified personnel and only by following the instructions given in the service manual.

This warning is stated on the product or in the operating instructions. When replacing the lithium batteries, follow the note below.

Dispose of the used battery promptly. Keep away from children. Do not disassemble and do not dispose of in fire.

The battery used in this device may present a fire or chemical hazard if mistreated. Do not recharge, disassemble, heat above 100°C or incinerate. Replace only with the same Part Number. Use of another battery may present a risk of fire or explosion.

Note: The lithium battery installation position is shown in the exploded view and the P.C. board pattern.

## ADVARSEL!

Lithiumbatteri — Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren.

Denne advarsel er angivet på produktet eller i brugsvejledningen. Ved udskiftning af lithium batterierne følges nedenstående anvisning. Batterierne må kun udskiftes med batterier af samme type og mærke.

## VARNING

Explosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikantens instruktion.

Denna varning finns på apparaten eller i bruksanvisningen. Följ nedanstående anvisningar vid byte av litumbatterier.

Batterierna får endast bytas ut mot litumbatterier av samma typ och fabrikat.

# 1. SPECIFICATIONS

## General

Power source .....	14.4 V DC (10.8 – 15.6 V allowable)
Grounding system .....	Negative type
Max. current consumption .....	
(KE-2700SDK, KE-2730B, KE-2700B) .....	2.5 A
(KE-1700SDK, KE-1730B, KE-1700B) .....	1.8 A
Dimensions (chassis) .....	180(W) × 50(H) × 141(D) mm
(front face) .....	188(W) × 58(H) × 16(D) mm
Weight .....	1.3 kg

## Amplifier

Maximum power output .....	
(KE-2700SDK, KE-2730B, KE-2700B) ....	8.5 W × 2/7 W × 4 (EIAJ)
(KE-1700SDK, KE-1730B, KE-1700B) .....	8.5 W × 2 (EIAJ)
Continuous power output .....	
(KE-2700SDK, KE-2730B, KE-2700B) .....	4.5 W × 2/3.5 W × 4 (1% dist. at 1 kHz)
(KE-1700SDK, KE-1730B, KE-1700B) .....	4.5 W × 2 (1% dist. at 1 kHz)

## Load impedance

(KE-2700SDK, KE-2730B, KE-2700B) .....	4 Ω (4 – 8 Ω allowable)
(KE-1700SDK, KE-1730B, KE-1700B) .....	4 Ω (2 – 8 Ω allowable)
Tone controls (KE-2700SDK, KE-2730B, KE-2700B) .....	
(bass) .....	±10 dB (100 Hz)
(treble) .....	±10 dB (10 kHz)
Loudness contour .....	+8 dB (100 Hz), +4 dB (10 kHz) (volume: -30 dB)

## Tape player

Tape .....	Compact cassette tape (C-30 – C-90)
Tape speed .....	4.76 cm/sec. (+0.14 cm/sec., -0.05 cm/sec.)
Fast forward/rewind time .....	Approx. 100 sec. for C-60
Wow & flutter .....	0.13% (WRMS)
Frequency response .....	50 – 14,000 Hz (±3 dB)
Stereo separation .....	45 dB
Signal-to-noise ratio .....	52 dB (IEC-A network)

## FM tuner

Frequency range .....	87.5 – 108 MHz
Usable sensitivity .....	11 dBf (1.0 μV/75 Ω, mono, S/N: 30 dB)
50 dB quieting sensitivity .....	16 dBf (1.7 μV/75 Ω, mono)
Signal-to-noise ratio .....	70 dB (IEC-A network)
Distortion .....	0.3% (at 65 dBf, 1 kHz, stereo)
Frequency response .....	30 – 15,000 Hz (±3 dB)
Stereo separation .....	40 dB (at 65 dBf, 1 kHz)

## MW tuner

Frequency range .....	531 – 1,602 kHz
Usable sensitivity .....	18 μV (25 dB) (S/N: 20 dB)
Selectivity .....	50 dB (±9 kHz)

## LW tuner (KE-2730B, KE-1730B)

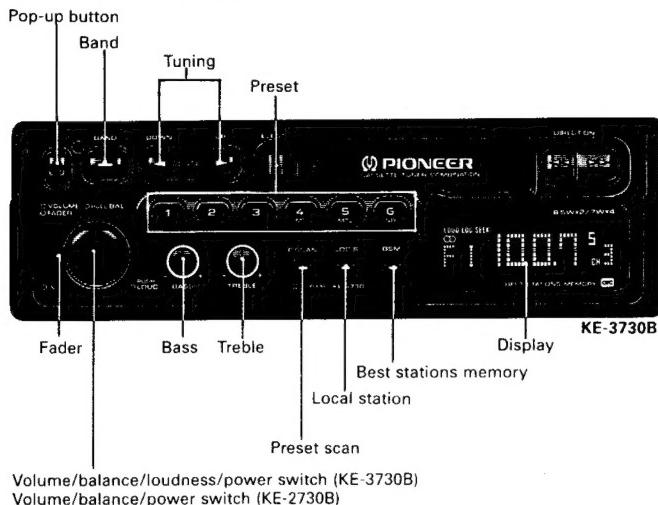
Frequency range .....	153 – 281 kHz
Usable sensitivity .....	30 μV (30 dB) (S/N: 20 dB)
Selectivity .....	50 dB (±9 kHz)

## Note:

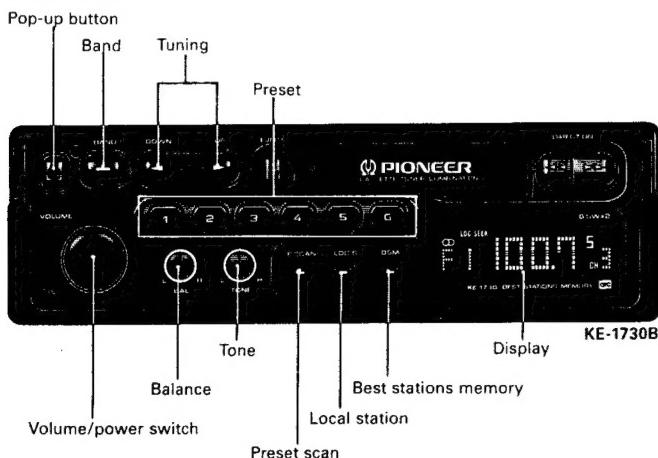
Specifications and the design are subject to possible modification without notice due to improvements.

## 2. USING THE RADIO

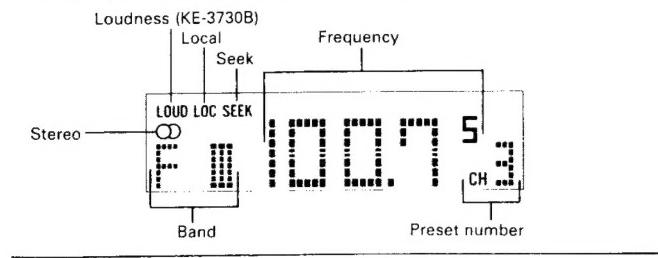
### KE-3730B, KE-2730B



### KE-1730B



### KE-3730B, KE-2730B, KE-1730B



#### ● Before attempting operation...

- Set the fader control to the left horizontal. (KE-2730B)
- Turning the power switch to the right causes power to switch ON and the current frequency to appear on the display.
- Since the set is designed preferentially for tape play, eject a cassette tape, if mounted, before operating the radio.
- Press the band switch to select the band.
- Switching between FM and MW/LW is controlled by the band switch. Switching between LW and MW is accomplished using the tuning button. The MW band is from 531 kHz to 1,602 kHz, and the LW band is from 153 kHz to 281 kHz.
- Press both ends of tuning button and the seek tuning indicator will appear on the display.
- Press either the left or right side of the tuning button to tune in the desired frequency. (Pressing the right side will increase the frequency.)

#### KE-2730B

- Adjust the volume and balance. To adjust the balance, first pull the knob until a click is heard. After setting to the desired level, push the knob in again to its original position.

#### KE-1730B

- Adjust the volume and balance.
- Adjust the tone.

#### ● To enter a frequency into the preset memory...

- Hold down one of the preset buttons (1-6) for approximately two seconds. The frequency is stored in memory (assigned to the preset button pressed) once the preset number stops flashing on the display.
- Six FM1 frequencies, six FM2 frequencies, six FM3 frequencies and six MW and LW frequencies can be entered.

#### ● Best Stations Memory

Automatically tunes strong frequencies and assigns them to preset buttons 1 through 6 for one-touch automatic tuning. The best stations memory function is activated by pressing this button for approximately 2 seconds. The best stations memory function is indicated by —— flashing on the display, and this function can be canceled by pressing the band switch. The frequency display returns once the best stations memory function is complete. The frequency displayed at this time is of the strongest station assigned to preset button 1 by the best stations memory function.

- 6 best (strongest) frequencies are memorized in the 6 preset buttons in the order of their strength, the strongest one being assigned to preset button 1.
- The frequencies previously assigned to the preset buttons are retained when 6 frequencies cannot be located.
- The best stations memory is in operation while —— is flashing on the display.

#### ● Local Station Switch

Pressing this switch increases the seek threshold level so that only relatively strong stations can be tuned in (local indicator will illuminate on the display). Local seek threshold level can be selected among four levels for FM and two levels for MW and LW. Holding this switch down for approximately 2 seconds and then pressing the right side of the tuning button changes the display from L-1, L-2, L-3 to L-4. Pressing the left side of the tuning button changes the display from L-4, L-3, L-2 to L-1 (L-1 and L-2 for MW/LW). The bigger the number, the higher the seek threshold becomes and only relatively strong stations can be tuned in.

### ● Fader Control (KE-2730B)

This control is used to adjust the balance between the front and rear speakers when using a 4-speaker system. Turning the control upwards decreases the volume of the rear speakers, while turning it downwards decreases the volume of the front speakers. With 2-speaker systems, set this control to a horizontal position.

A considerable amount of sound will continue to be produced from speakers of a 4-speaker system which have been cut by setting the fader control either to the front speakers or rear speakers. This is normal and does not indicate malfunction.

### ● Auto-Loudness (KE-2730B, KE-1730B)

When playing back a tape or listening to the radio at low volume, the low and high tones are automatically emphasized.

### Seek Tuning

Press both ends of tuning button and tuning to the next higher or lower broadcast on the band can be accomplished automatically by simply pressing either the right or left side of the tuning button. FM frequencies change in 50 kHz steps while those in the MW and LW bands change in 9 kHz steps.

### Preset Scan Tuning

Pressing the preset scan button (CH indicator flashes) causes previously stored frequencies to be tuned sequentially for eight seconds each. Press again when the desired frequency is tuned in to cancel preset scan tuning.

### Preset Tuning

Pressing the preset button instantly tunes in the frequency programmed in the memory for that button.

### Manual Tuning

When manual tuning is employed, FM frequencies change in 50 kHz steps, LW frequencies change in 1 kHz steps, and MW frequencies change in 9 kHz steps.

1. Press both ends of tuning button and the seek tuning indicator will disappear from the display.

2. Change the frequency by pressing either the left or right side of the tuning button. Pressing the button once will change the frequency one step (see above). Continuously depressing either side of the button will successively change the frequency at the prescribed step.

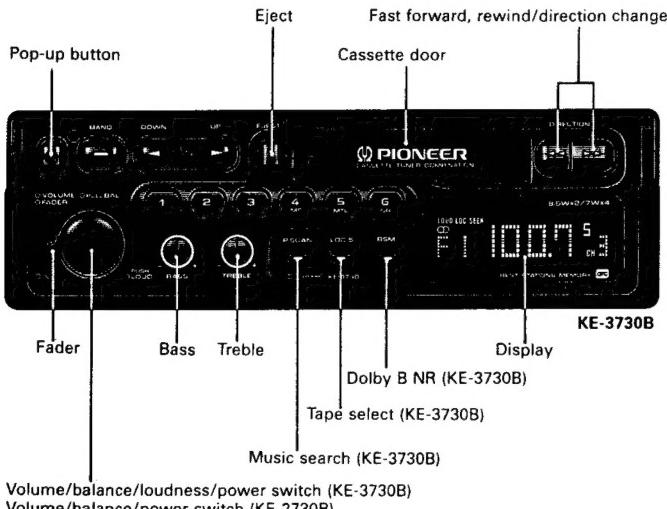
### ● Pop-up button

When the quickrelease handle is on the bottom, push the button to move it up slightly. Push it when you remove the unit from the dashboard.

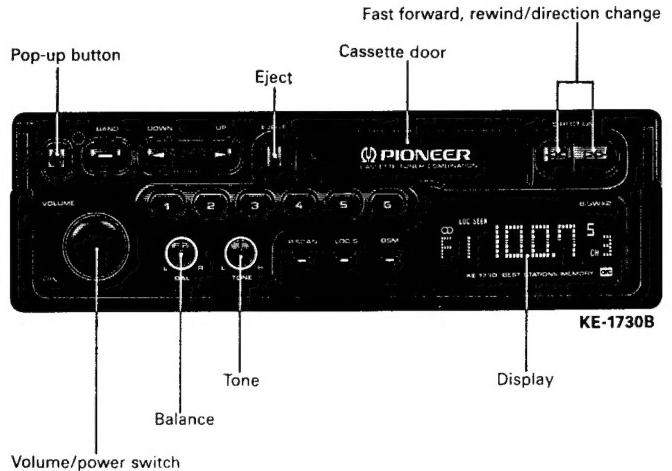
The button works only when the handle lock is released.

## 3. USING THE TAPE DECK

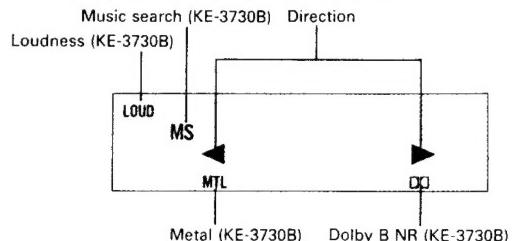
### KE-3730B, KE-2730B



### KE-1730B



### KE-3730B, KE-2730B, KE-1730B



● Before attempting operation...

- Set the fader control to the left horizontal. (KE-2730B)
- 1. Turning the power switch to the right causes power to switch ON.
- 2. Loading a cassette tape into the load slot causes playback to begin automatically.

**KE-2730B**

3. Adjust the volume and balance. To adjust the balance, first pull the knob until a click is heard. After setting to the desired level, push the knob in again to its original position.

**KE-1730B**

3. Adjust the volume and balance.
  4. Adjust the tone.
  5. When tape playback reaches the end of the tape, playback will automatically switch from the side being played to the opposite side (ie. Side A to Side B or vice versa) (Auto-reverse). To eject the tape during playback, press the eject button.
- A loose or warped label on a cassette tape may interfere with the eject mechanism of the unit or cause the cassette to become jammed in the unit. Avoid using such tapes or remove such labels from the cassette before attempting use.
  - Do not try to eject the cassette immediately after insertion, as it will cause malfunction. Wait a few seconds.
  - Loose tapes should be rewound with the aid of a pencil and unevenly wound tapes rewound with the use of the fast forward function.
  - Be sure to eject the tape when the vehicle's ignition is turned OFF. Leaving the tape in the unit can deform the pinch roller causing wow and flutter during tape playback.

● Fast Forward/Rewind

Since the transport can be in either direction, both the left and right high-speed tape transport buttons can be regarded as fast forward/rewind buttons.

For fast forward, press the high-speed tape transport button that corresponds to the direction that is shown by the direction indicator. When the end of the tape is reached, playback will automatically begin from the opposite side of the tape (Auto-reverse).

For rewind, press the button that is opposite that of the direction shown by the direction indicator. When the end of the tape is reached, playback will automatically begin from the beginning of the same side of the tape (Auto-replay).

Fast forward and rewind can be terminated by pressing the respective opposite high-speed tape transport button.

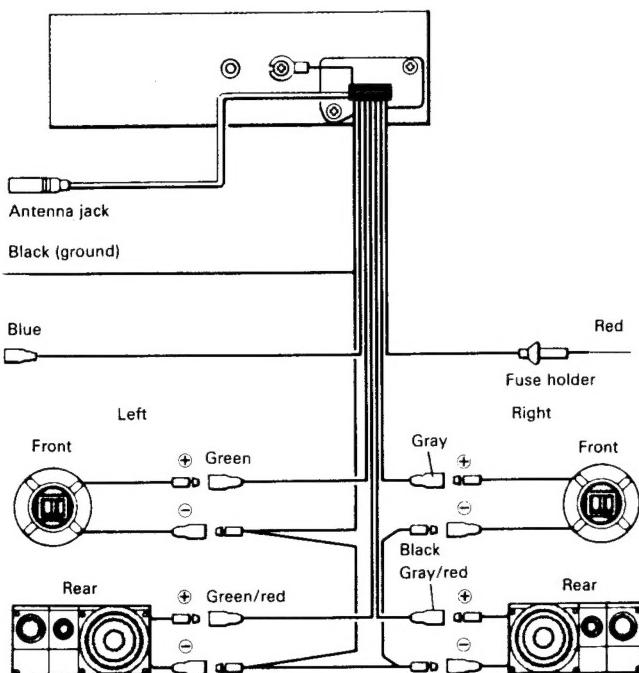
● Direction Change

Push the fast forward and rewind buttons together to switch from one side of the tape to the other (from Side A to Side B or vice versa).

## 4. CONNECTIONS

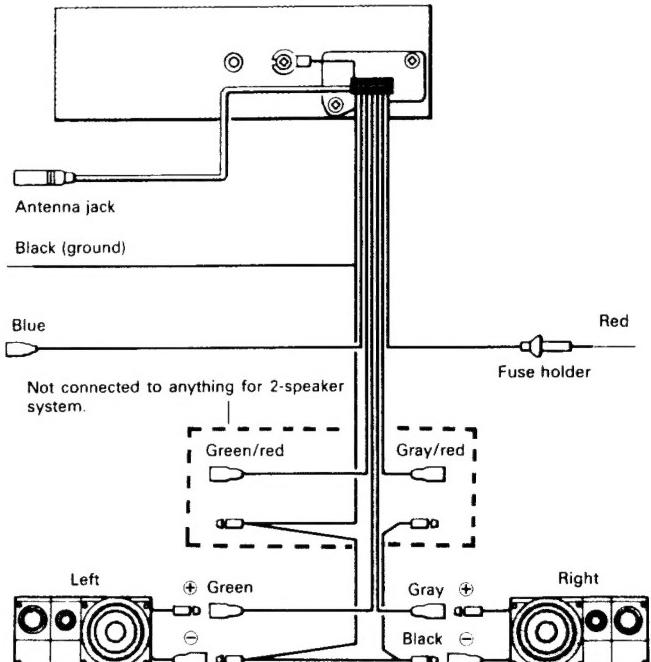
### KE-2700SDK, KE-2730B, KE-2700B

#### 4-speaker system

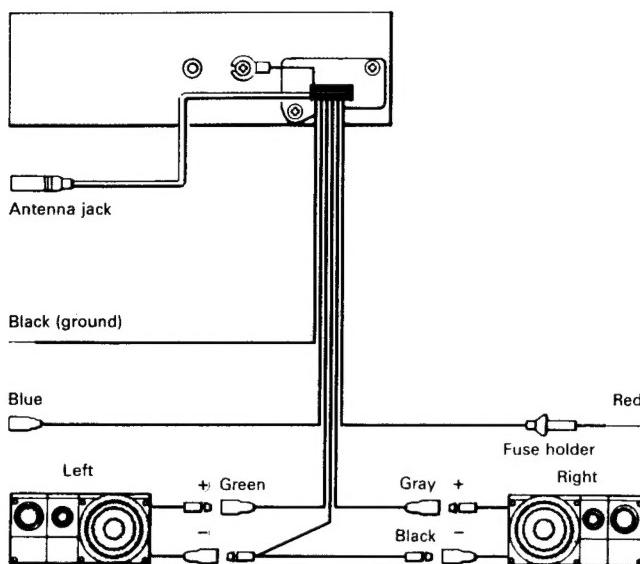


### KE-2700SDK, KE-2730B, KE-2700B

#### 2-speaker system



## KE-1700SDK, KE-1730B, KE-1700B

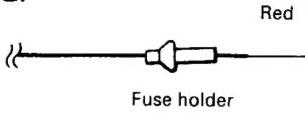
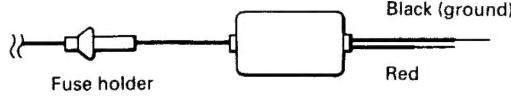
**Note:**

- To avoid shorts in the electrical system, be sure to disconnect the battery  $\ominus$  cable before beginning installation.
- Replace the fuse only with the type stipulated on the fuse holder.
- Be sure to properly connect the color coded leads. Failure to do so can cause malfunctions.
- Cover unused terminals with tape to prevent electrical shorts.

<b>Black (ground)</b>	To vehicle (metal) body.
<b>Blue</b>	To auto-antenna power terminal (Max. 300 mA 12 V DC).
<b>Red</b>	To electric terminal controlled by ignition switch (12 V DC) ON/OFF.

## ERRATUM (KE-2700SDK, KE-1700SDK)

There is a mistake in the "Connections" section in the Owner's Manual. The red lead in the illustration should be changed as follows:

**WRONG:****RIGHT:**

<b>Black (ground)</b>	To vehicle (metal) body.
<b>Red</b>	To electric terminal controlled by ignition switch (12 V DC) ON/OFF.

**• CAUTION**

It is very dangerous to short the red and black leads together. Before connecting the leads, read the "Connections" section in the Owner's manual, and connect the leads carefully.

## 5. DISASSEMBLY

### ● Removing the Case

1. Insert and turn a screwdriver to remove the case.
2. Raise the case to remove.

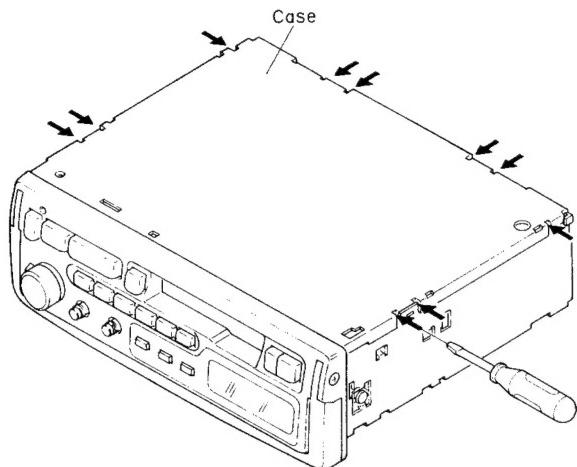


Fig. 1

### ● Removing the Handle

1. Remove the two screws, and then remove the handle.

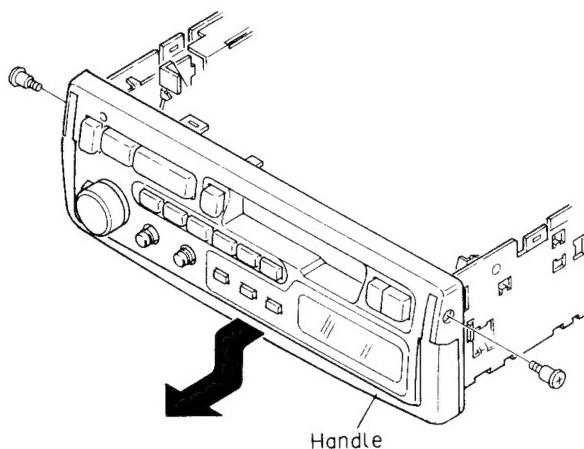


Fig. 2

### ● Removing the Grille Assy

1. Remove the two knobs.  
(KE-2700SDK, KE-2730B, KE-2700B)
2. Remove the knob.  
(KE-1700SDK, KE-1730B, KE-1700B)
3. Press the tabs at four locations, and then pull out the grille assy.

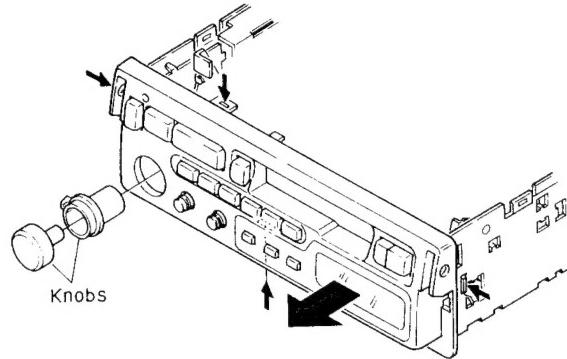


Fig. 3

### ● Removing the Cassette Mechanism Assy

1. Disconnect the connector.
2. Remove the four screws A and four screws B.
3. Remove the cassette mechanism assy.

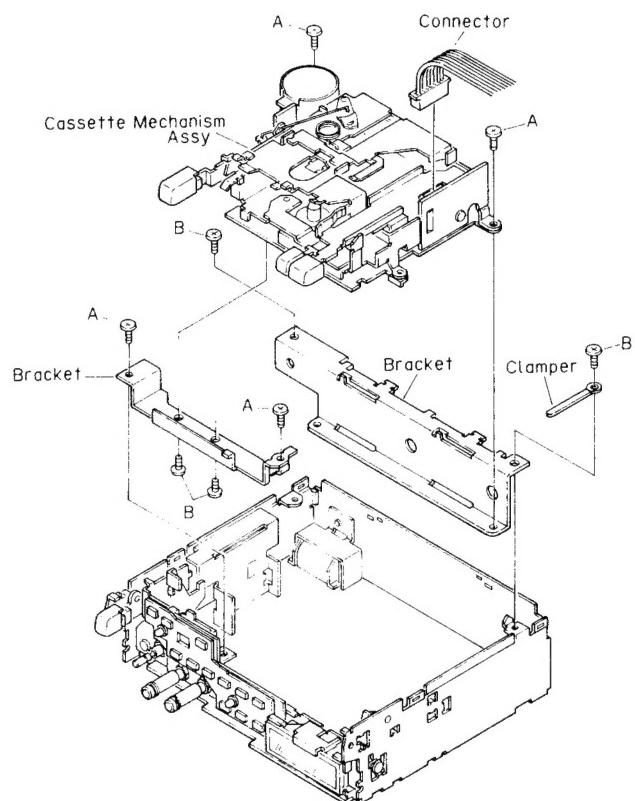


Fig. 4

- **Removing the SDK P.C. board  
(KE-2700SDK, KE-1700SDK)**

1. Pull out the SDK P.C. board.

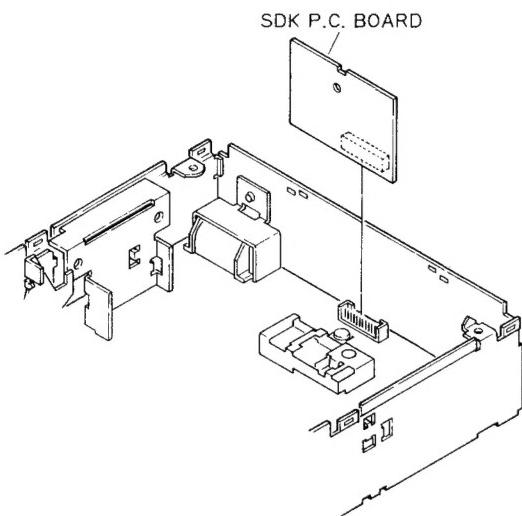


Fig. 5

- **Removing the Tuner Amp Unit**

1. Remove the four screws C.
2. Raise up on tuner amp unit to remove it from the chassis unit.

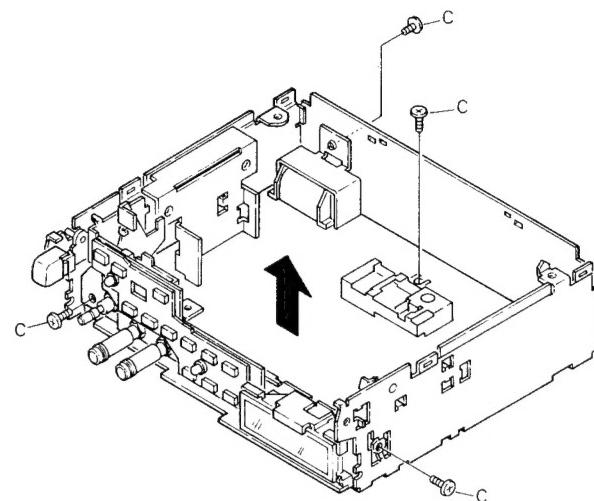


Fig. 6

## 6. BLOCK DIAGRAM

- KE-2700B

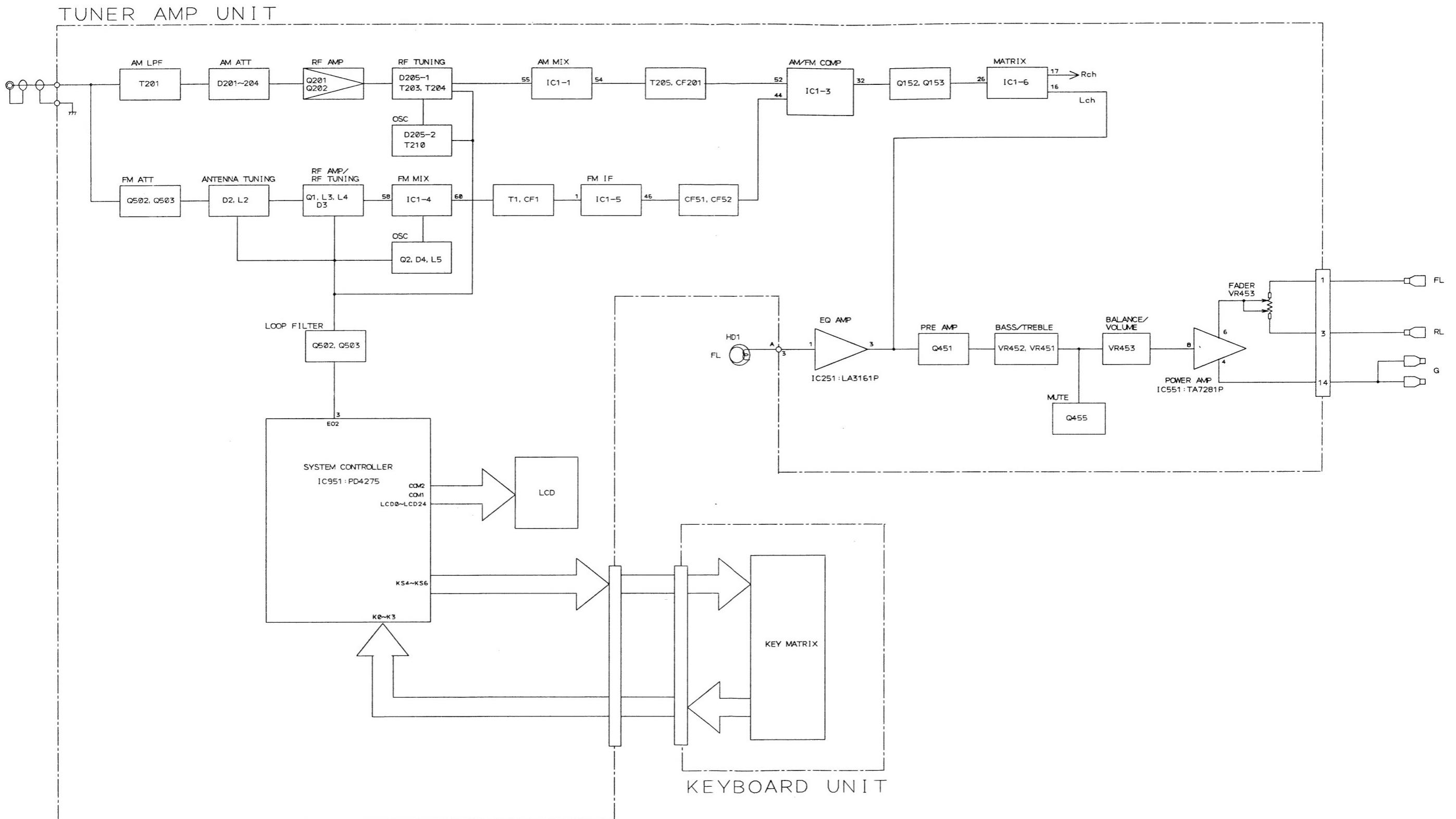


Fig. 7

## 7. ADJUSTMENT

### ● Connection Diagram

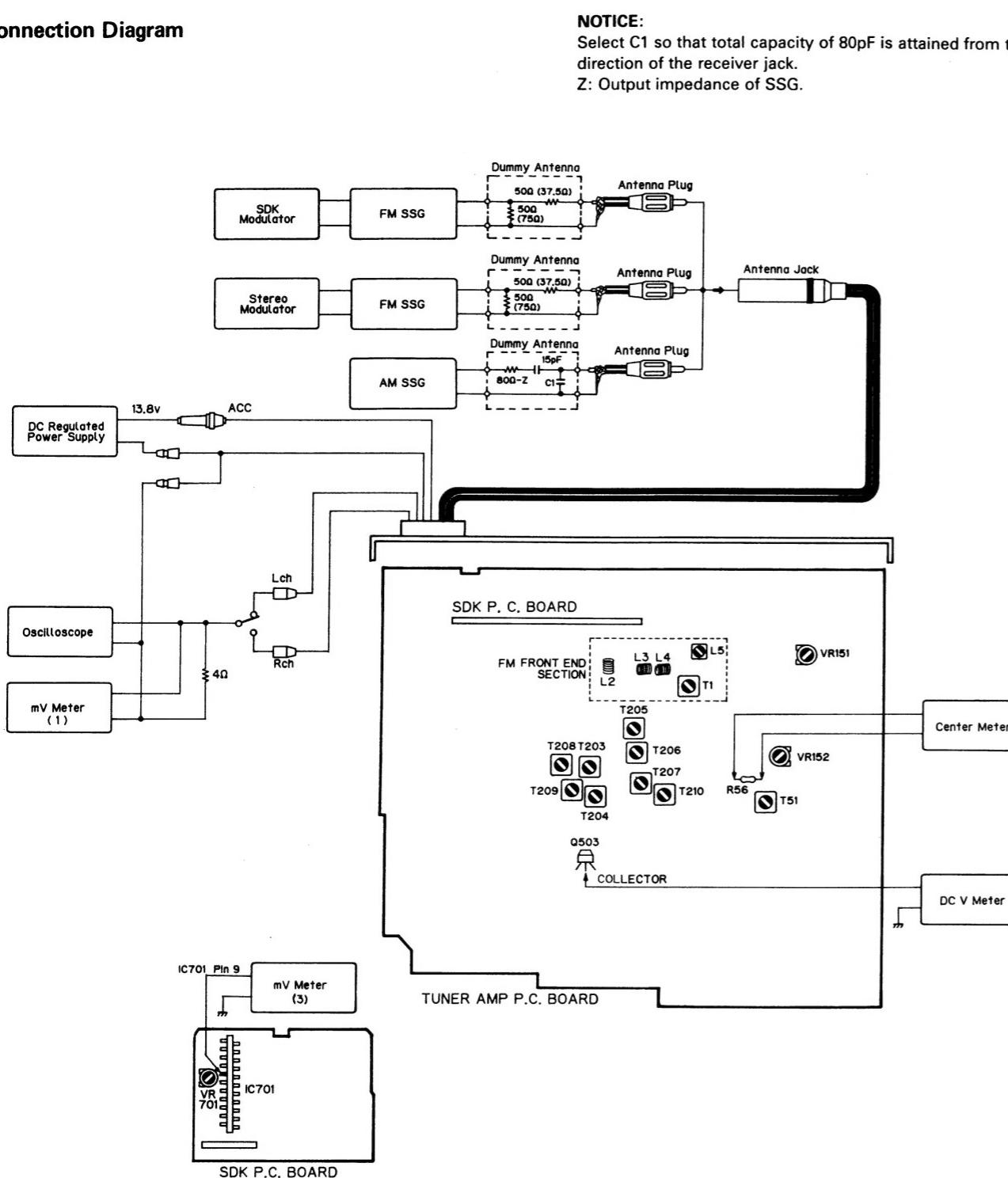


Fig. 8

### FM ADJUSTMENT

※ 1 Stereo MOD.: Pilot=10%

※ 2 Stereo MOD.: 1kHz, L+R=90%, Pilot=10%

No.	FM SSG (400Hz, 100%)		Displayed Frequency (MHz)	Adjusting Point	Adjustment Method (Switch Position)
	Frequency (MHz)	Level (dBf)			
Tuning Volt	1	—	—	108.0	L5 DC V Meter:7.0V
Tracking	1	98.1	15	98.1	L2, L4 mV Meter(1):Maximum
	2	98.1	15	98.1	T1 mV Meter(1):Maximum
IF	1	98.1 Unmodulated	65	98.1	T51 Center Meter:0
Pilot Cancel	1	98.1※ 1	65	98.1	VR151 mV Meter(1):Minimum (MPX Filter:OFF)
ARC	1	98.1※ 2	40	98.1	VR152 mV Meter(1):Separation 5dB

### AM ADJUSTMENT

(KE-2700SDK, KE-2700B, KE-1700SDK, KE-1700B)

No.	AM SSG (400Hz, 30%)		Displayed Frequency (kHz)	Adjusting Point	Adjustment Method (Switch Position)
	Frequency (kHz)	Level (dB $\mu$ V)			
Tuning Volt	1	—	—	530	T210 DC V Meter:1.0V
Tracking	1	1,000	20	1,000	T203, 204, 205, 206 mV Meter(1):Maximum

## MW/LW ADJUSTMENT (KE-2730B, KE-1730B)

	No.	AM SSG (400Hz, 30%)		Displayed Frequency (kHz)	Adjusting Point	Adjustment Method (Switch Position)
		Frequency (kHz)	Level (dB $\mu$ V)			
Tun-ing Volt	1	—	—	531	T210	DC V Meter: 1.0V
	2	—	—	153	T207	DC V Meter: 3.0V
Trac-ki- ng	1	999	20	999	T203, 204, 205, 206	mV Meter (1) : Maximum
	1	216	20	216	T208, 209	mV Meter (1) : Maximum

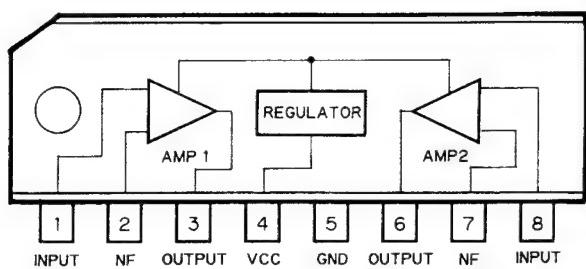
## SDK ADJUSTMENT (KE-2700SDK, KE-1700SDK)

※ 3 : SDK MOD. : SK (57kH)=5%

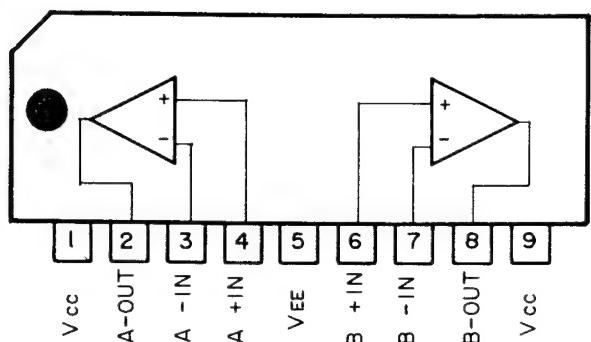
	No.	FM SSG (400Hz, 100%)		Displayed Frequency (MHz)	Adjusting Point	Adjustment Method (Switch Position)
		Frequency (MHz)	Level (dBf)			
	1	98.1※ 3	65	98.1	VR701	mV Meter (3) : Maximum

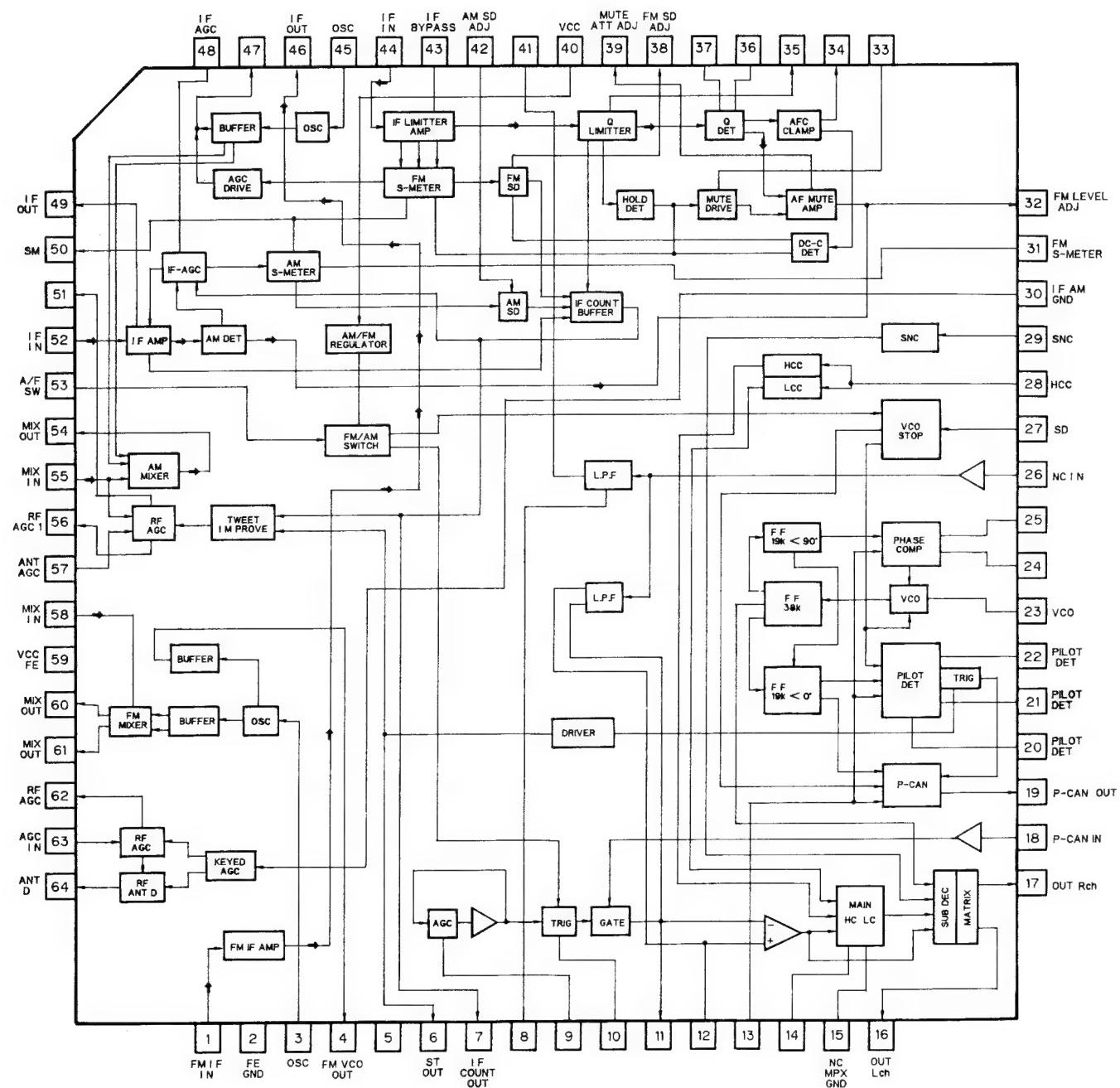
## ● ICs

LA3161P



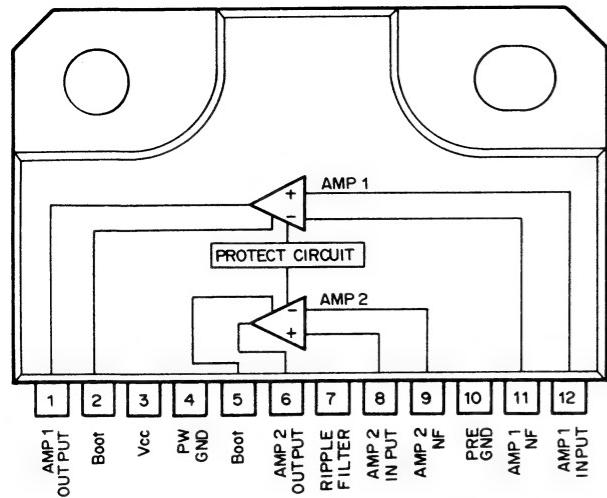
TA75558S



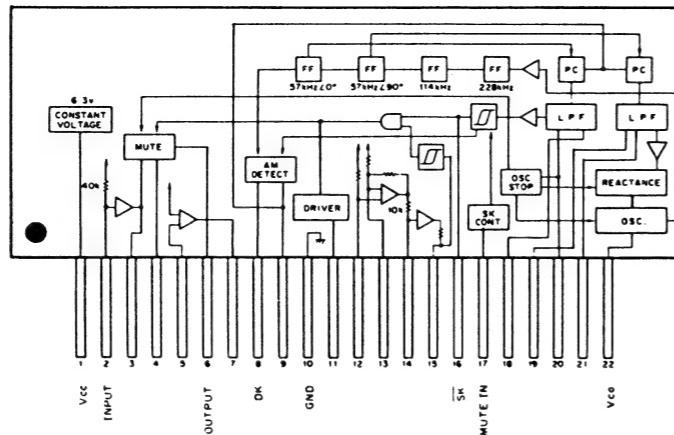


TA7281P

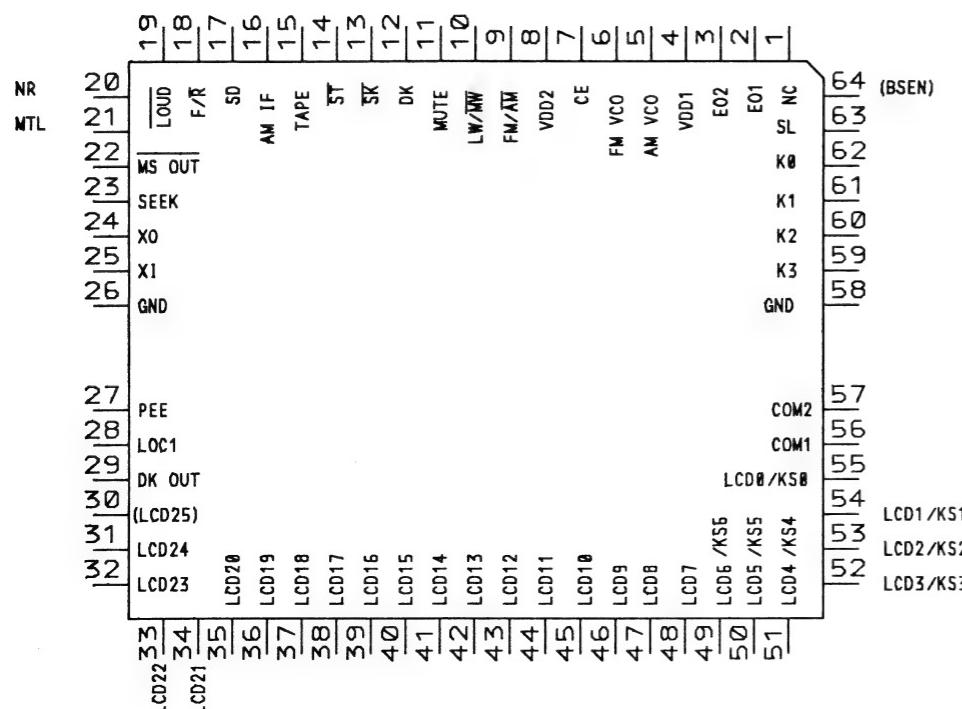
TA7281P



LA2220



\*PD4275



IC's marked by \* are MOS type.  
Be careful in handling them because they are very  
liable to be damaged by electrostatic induction.

### ● Pin Function (PD4275)

Pin No.	Pin Name	I/O	Output Format	Function and Operation
1	NC		C	Not used
2	E01	Output	C(3)	PLL error output pins
3	E02			
4	VDD1			Device power supply pin
8	VDD2			
5	VCOL	Input		AM local oscillator signal input pin
6	VCOH	Input		FM local oscillator signal input pin
7	GE	Input		Chip enable input pin
9	FM/AM	Output	C	FM/AM band select pin "H":FM "L":AM
10	LW	Output	C	Loop filter switching output pin "H":LW
11	MUTE	Output	C	Mute output pin "H":ON
12	DK	INPUT		SK signal input pin
13	SK	INPUT		DK signal input pin
14	ST	Input		Stereo broadcast detection signal input pin "L":Stereo indicator is displayed
15	TAPE	INPUT		Tape power ON/OFF input pin "H":ON
16	AMIF	Input		AM IF signal input pin
17	SD	Input		FM SD input "H":During broadcast reception
18	F/REV	Input		Tape motion signal input pin "H":Forward
19	LOUD	Input		Loudness ON/OFF signal input pin "L":ON
20	NR	Output	C	Dolby NR ON/OFF output pin "H":ON
21	METAL	Output	C	Tape METAL ON/OFF output pin "L":ON
22	MSOUT	Output	C	Tape MS ON/OFF output pin "L":ON
23	SEEK	Output	C	"H" level:SEEK, BSM, BSA and PSCAN
24	XO	Output		Quartz oscillator terminal
25	XI	Input		
26	GND			GND terminal
27	PEE	Output	C	Alarm output pin
28	LOC1	Output	C	Halt sensitivity switching pin "L":DX SEEK(P. SCAN) "H":LOC SEEK
29	DKOUT	Output	C	Control by DK (terminal #12) input signal "H":DK input signal is detected as 125Hz
30	NC			Not used

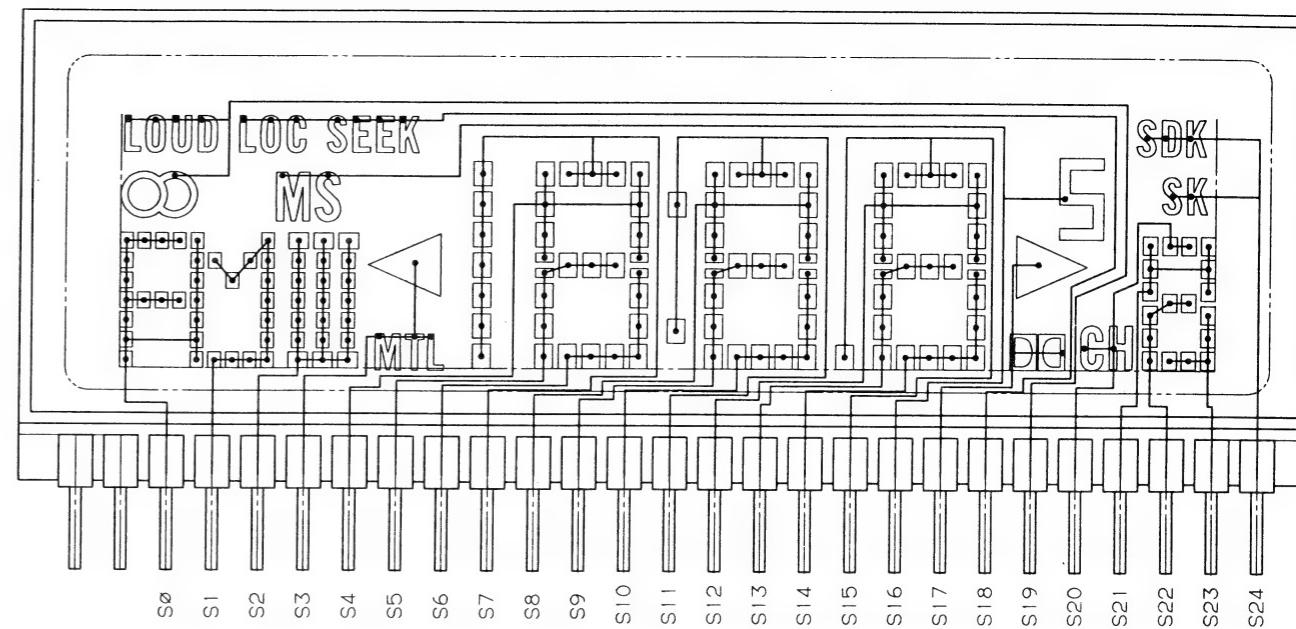
Pin No.	P N
31	LCD
55	LCD
48	KS7
55	KS0
56	COM
57	COM
59	K3
62	K0
63	SL
64	NC
	Output
	C
	C

Pin No.	Pin Name	I/O	Output Format	Function and Operation
31   55	LCD24   LCD0	Output	C	Segment signal output pins to LCD
48   55	KS7   KS0	Output	C	Key matrix strobe output pins
56 57	COM1 COM2	Output	C	Common signal output pins to LCD
59   62	K3   KO	Input		Key matrix return input pins
63	SL	Input		AM station level analog input pin
64	NC		C	Not used

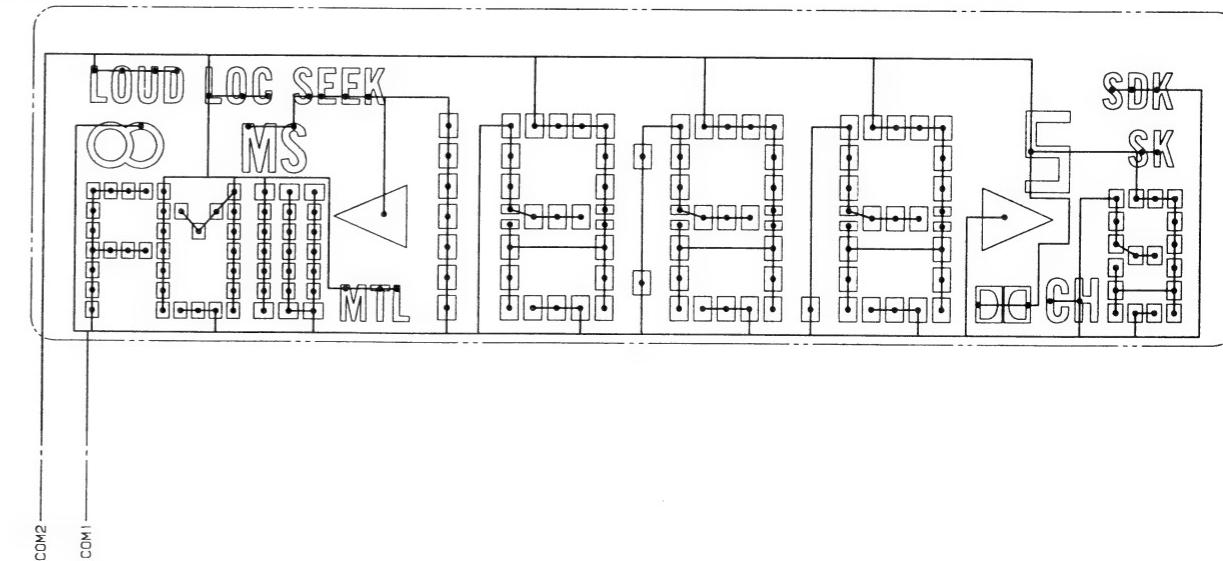
Output format	Meaning
C	C-MOS
C(3)	C-MOS (3 State)

- LCD(CAW1097)

## SEGMENT



## COMMON



## 8. CONNECTION DIAGRAM (KE-2700SDK)

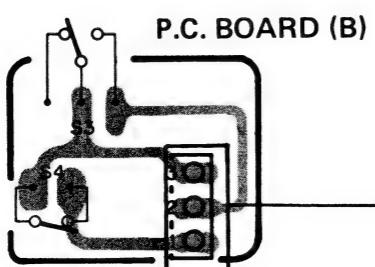
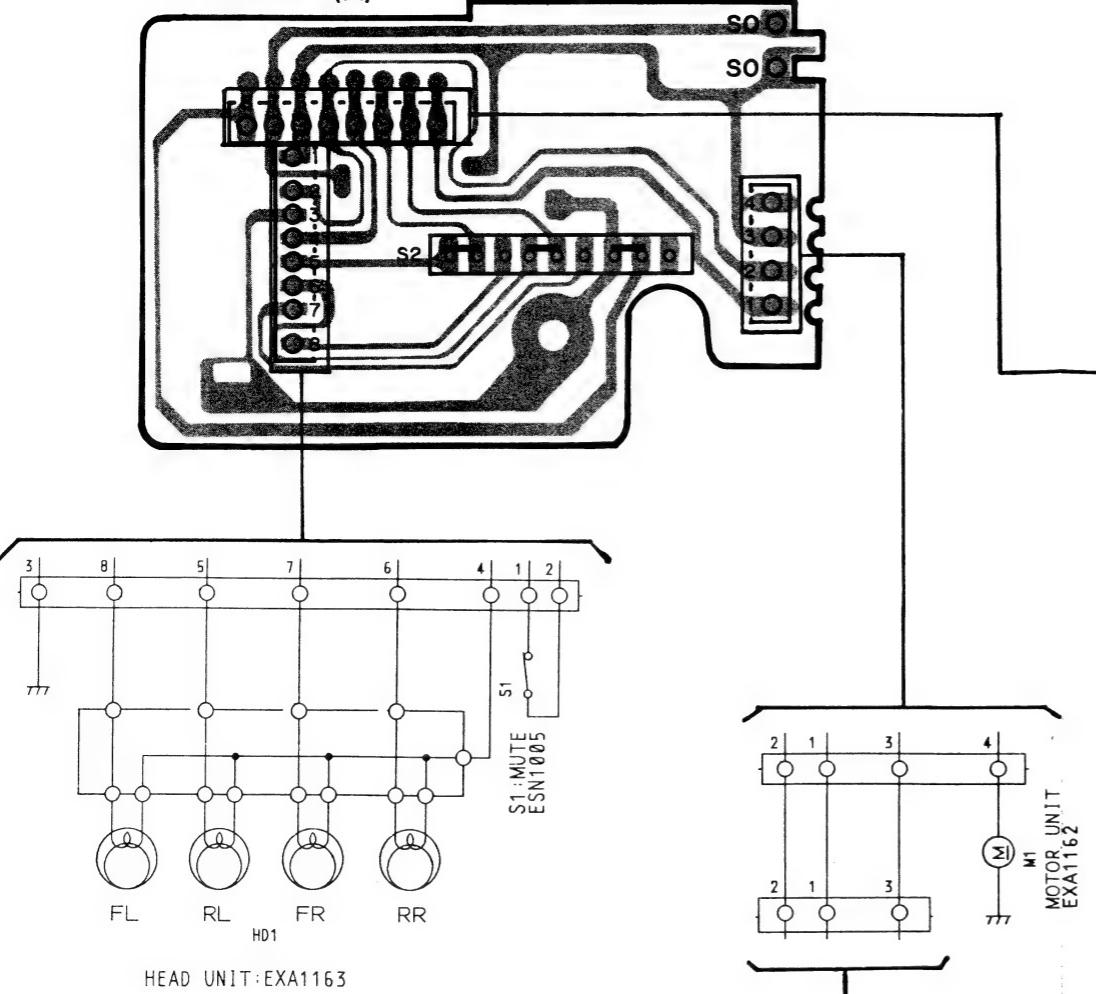
A

B

C

D

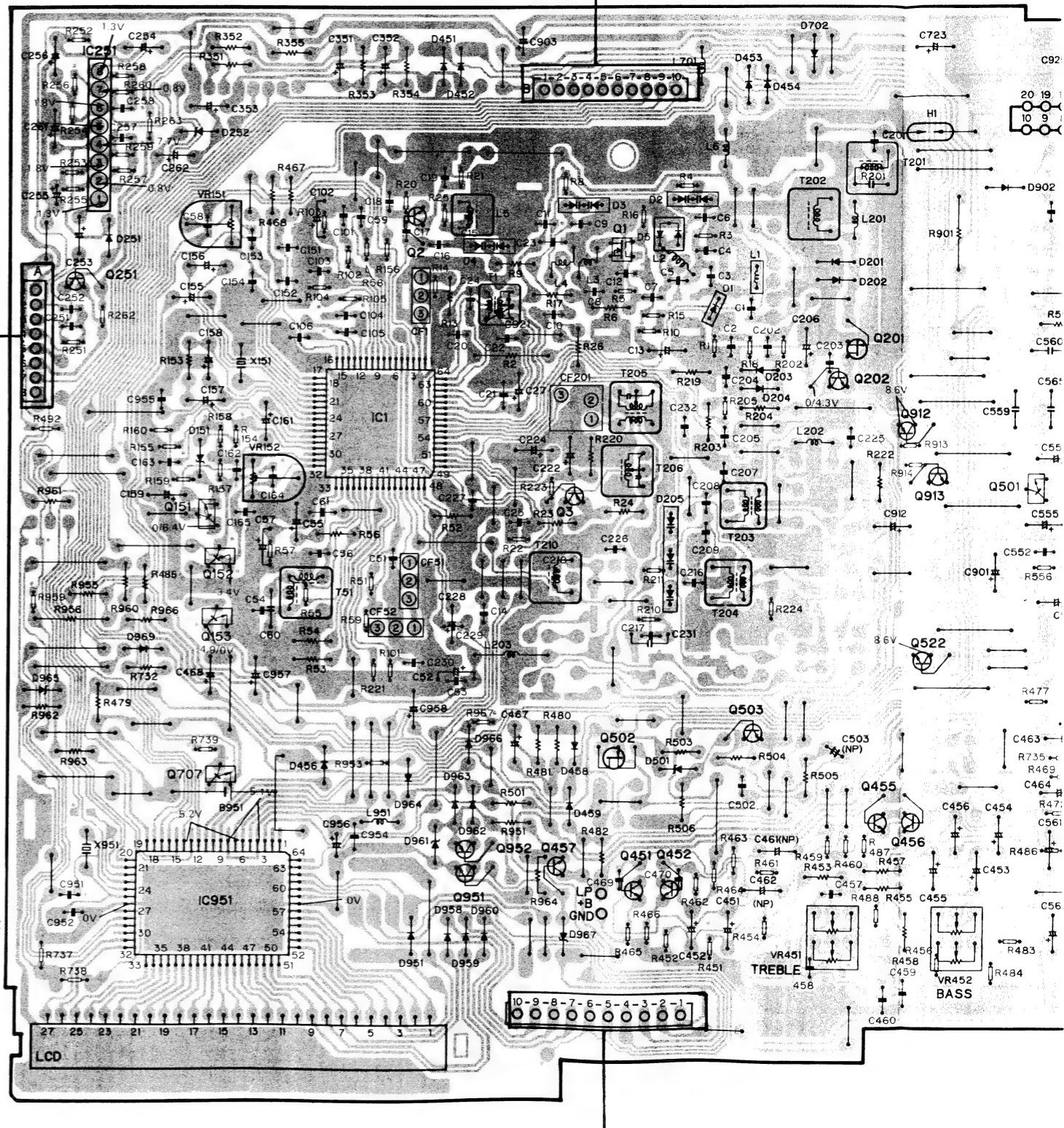
P.C. BOARD (A)

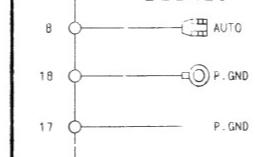
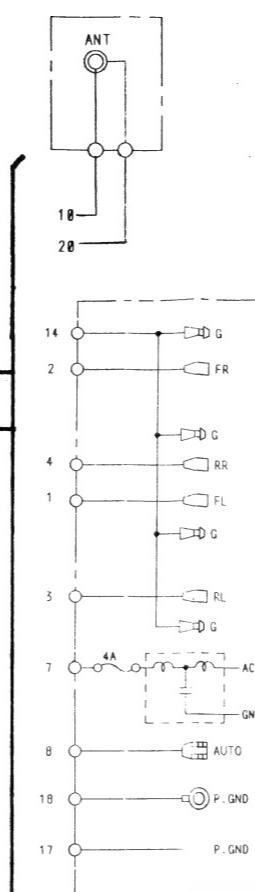
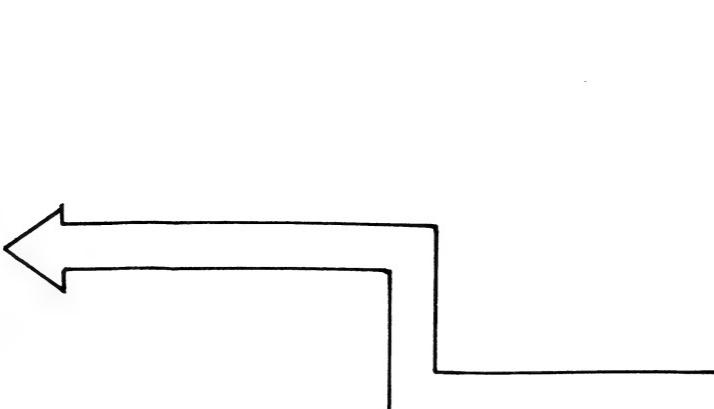
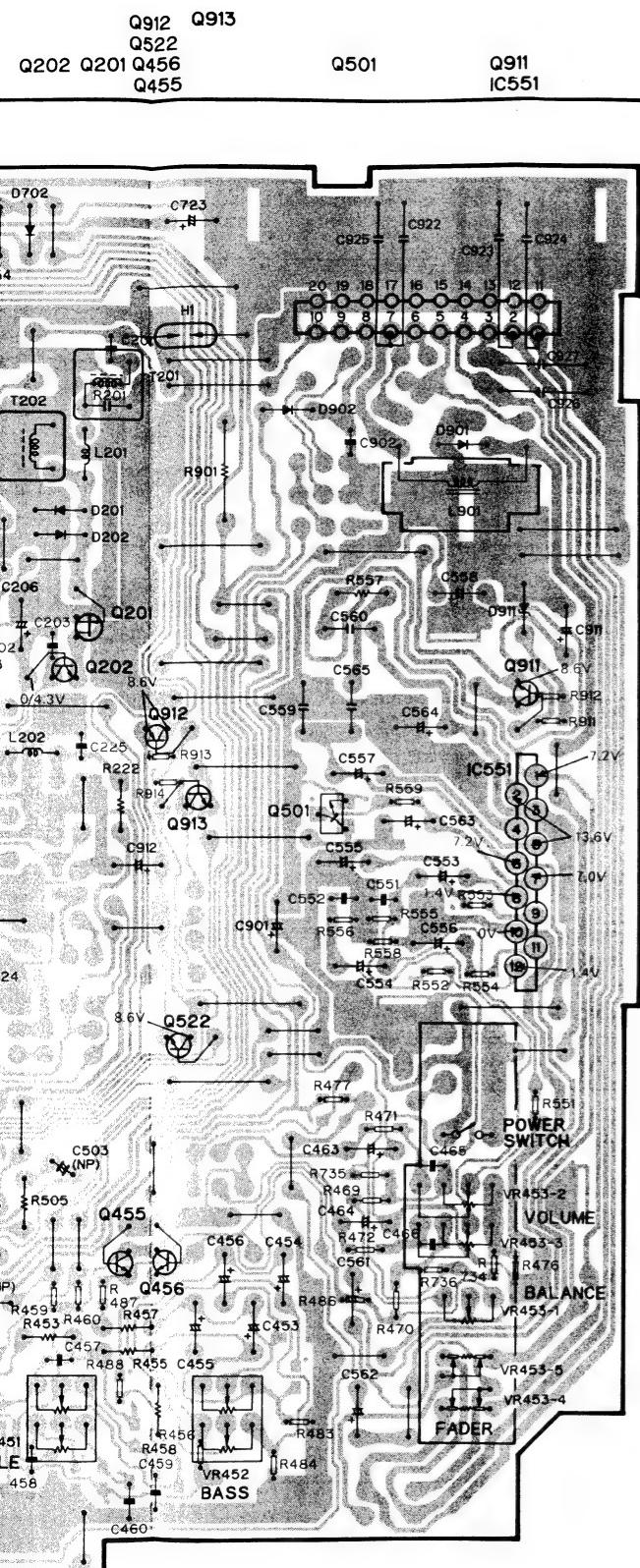


C921  
122P  
(CKPYB121X52)  
There is a C921 unit fitted with a ceramic capacitor instead of a chip capacitor. Both units are interchangeable with each other.

TUNER AMP P.C. BOARD

Q251	IC951	Q151	Q153	Q707	Q152	IC1	Q2	Q952	Q3	Q452	Q457	Q502	Q451	Q1	Q452	Q202	Q201	Q456	Q455	Q912	Q913
ADJ						VR151	VR152	T51	IC1	Q2	Q951	L5 T1	L4 T210	T205	L2	T204	T203	T206	Q503	Q202	Q201





TUNER AMP P.C. BOARD: IC1

1	2	3	4	5	6	7	8	9	10
2.1V	0V				5.2V		2.9V		
11	12	13	14	15	16	17	18	19	20
4.8V	4.8V	4.8V	2.8V	0V	2.3V	2.3V	4.7V		3.5V
21	22	23	24	25	26	27	28	29	30
3.5V	3.5V	3.8V	3.5V	3.5V	4.8V		0/4.1V	0/3.5V	0V
31	32	33	34	35	36	37	38	39	40
0/6.4V	3.4V								
41	42	43	44	45	46	47	48	49	50
1.3V			2.4/0V		3.3/0V	4/5.2V	3.4/3.8V		8.7V
51	52	53	54	55	56	57	58	59	60
0.2V	0/6.9V	4.9/0V	8.7V	0/2.2V	0/4.3V		3.4/0V	8.6/0V	8.6/0V
61	62	63	64						
8.6/0V	8.6/0V								

FM/MW

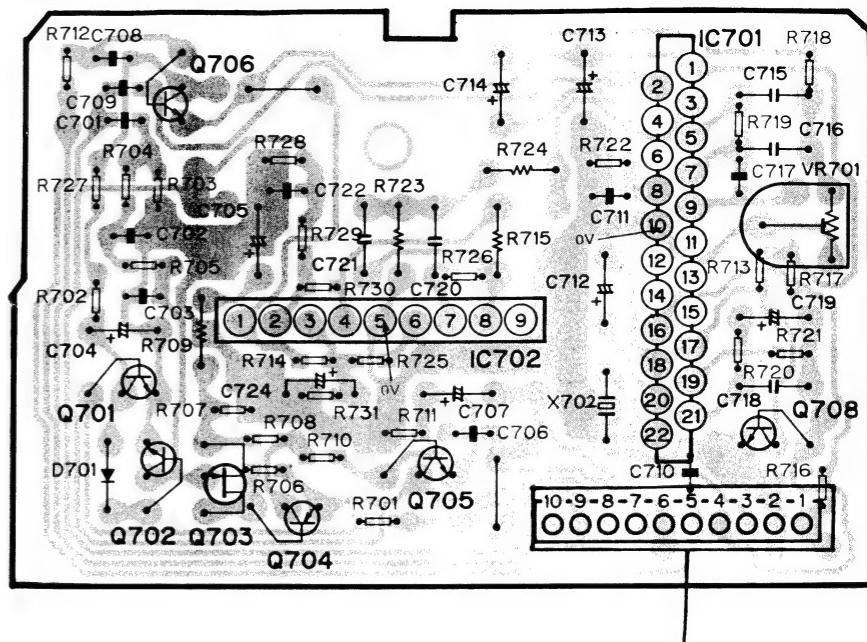
## SDK P.C. BOARD

Q706 Q703  
IC, Q Q701 Q702 Q704 IC702 Q705

IC701 Q708

VR701

ADJ



## KEYBOARD UNIT

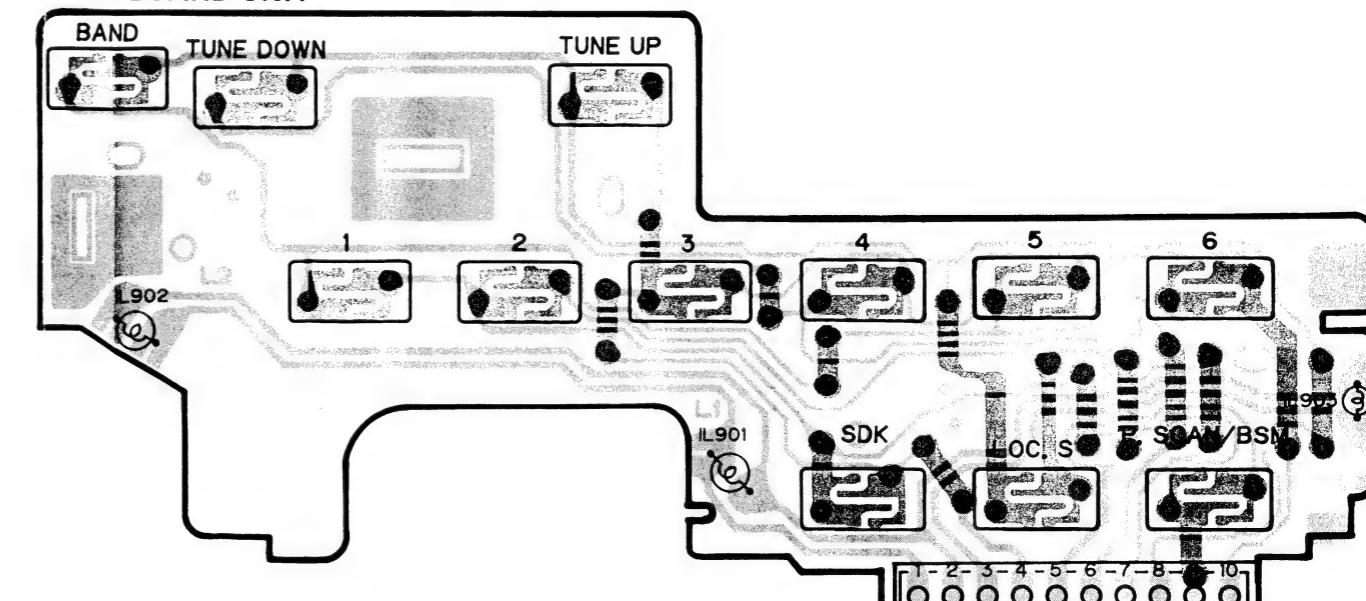
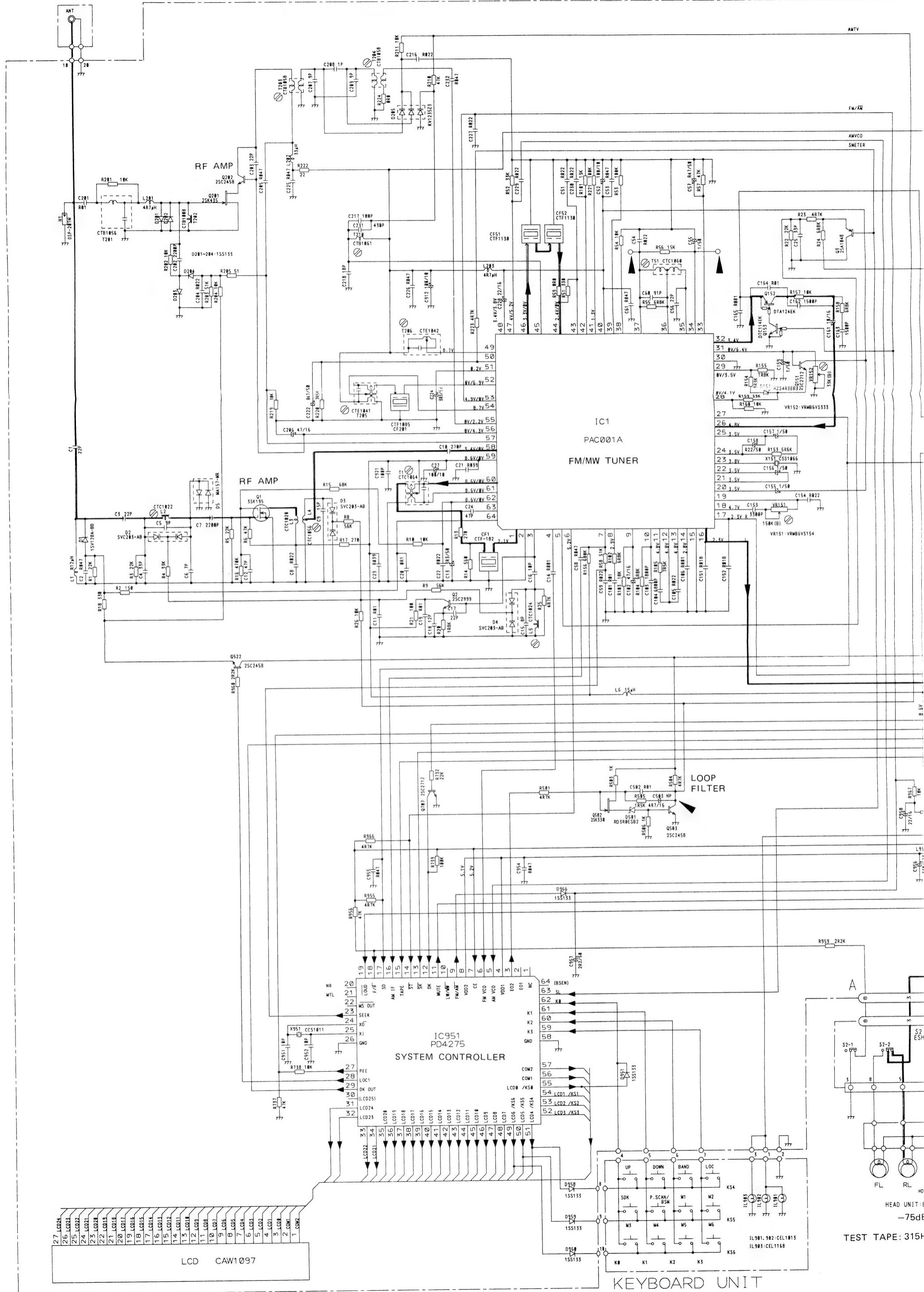
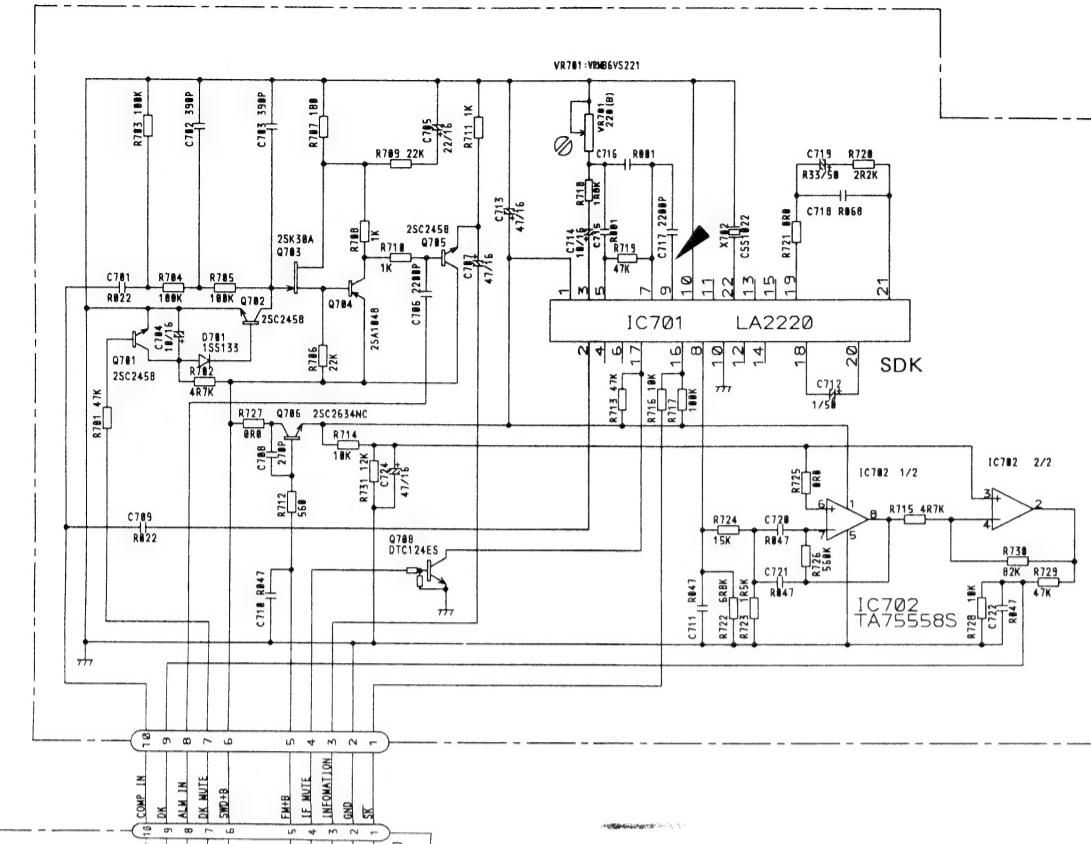


Fig. 9

## 9. SCHEMATIC CIRCUIT DIAGRAM (KE-2700SDK)



SDK P.C. BOARD



**TUNER AMP UNIT**

- Consists of  
● SDK P.C.BOARD  
● TUNER AMP P.C.BOARD

**NOTE :**

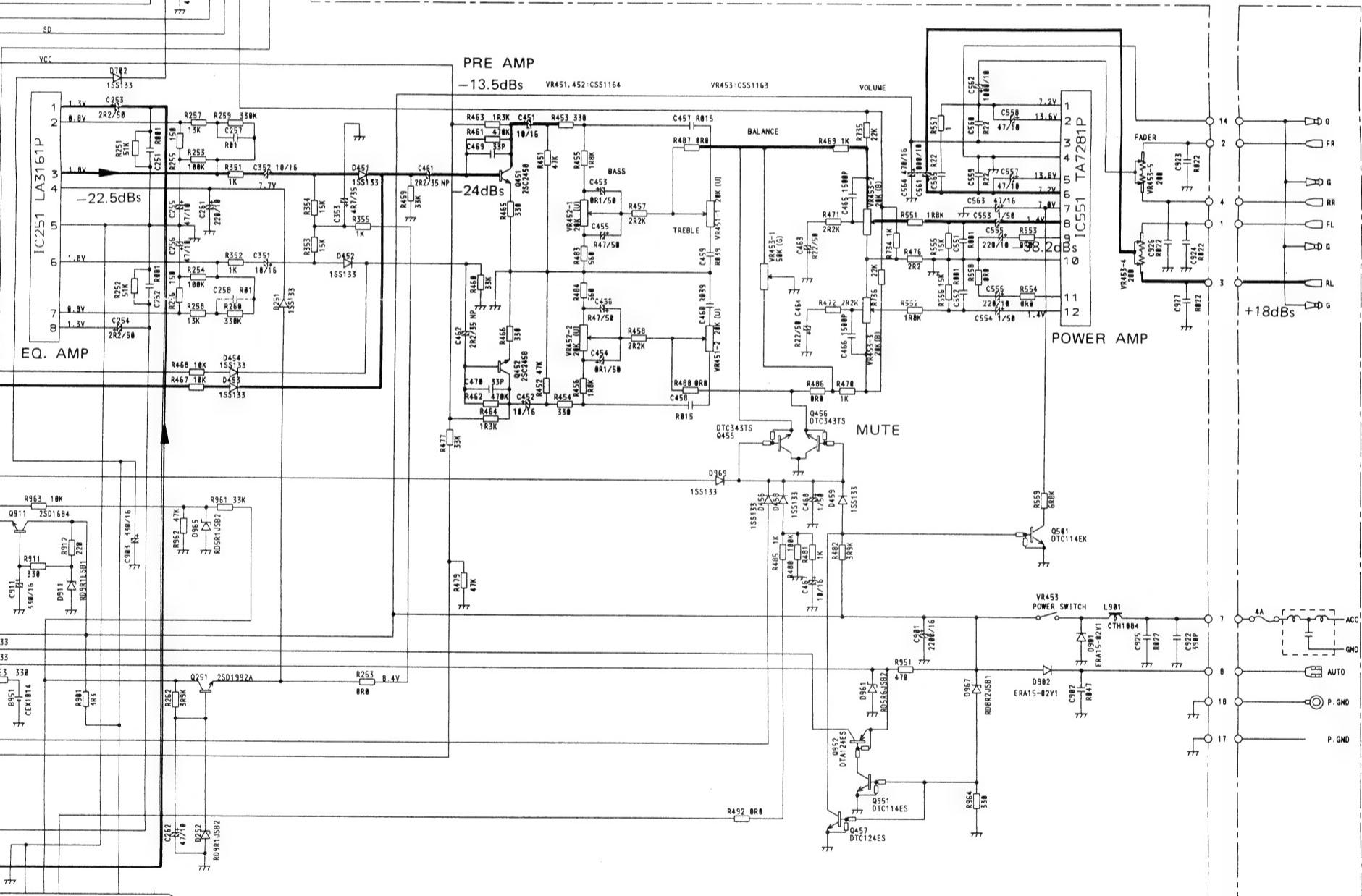
NOTE:  
— Symbol indicates a resistor.  
No differentiation is made between chip resistors and discrete resistors.

→||— Symbol indicates a capacitor.  
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:  
 $2.2 \rightarrow 2R2$

0.022→R022

## TUNER AMP P.C. BOARD



MUITE

P.C. BOARD (A)

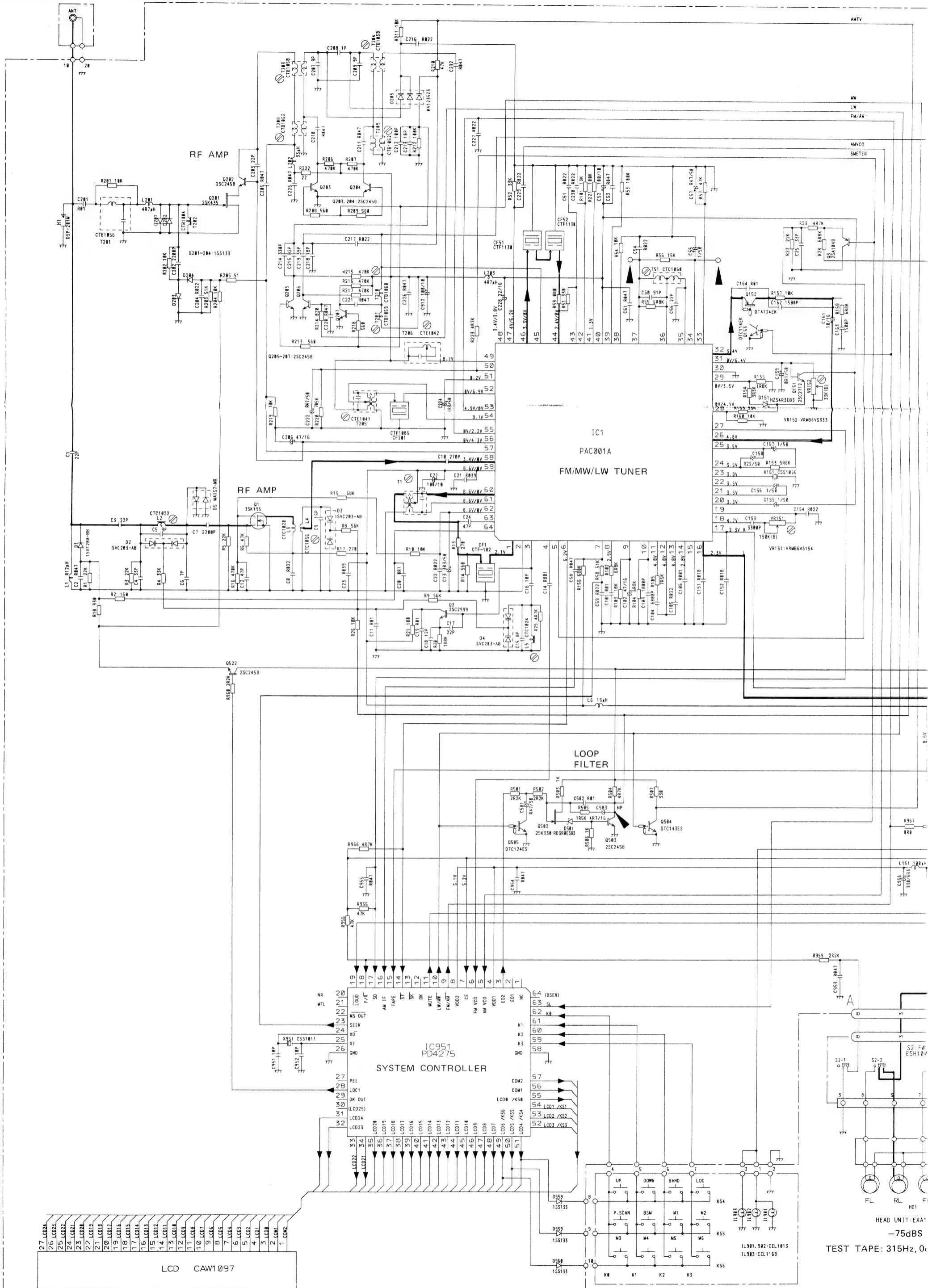
Diagram illustrating the connections for P.C. BOARD (A). The circuit includes the following components and connections:

- S2: FWD/REV ESN1083**: A switch with contacts S2-2 and S2-3.
- S1 MUTE ESN1085**: A switch with contacts S1-1 and S1-2.
- S3**: A switch with contacts S3-1 and S3-2.
- S4: MUTE CSN1085**: A switch with contacts S4-1 and S4-2.
- RL**, **FR**, **RR**: Components connected to the board.
- HO1**: A connector point.
- 3.3V TAPE/TUN ESN1084**: A component connected to the board.
- MOTOR UNIT EXA162**: A motor unit connected to the board.

HEAD UNIT: EXA1163  
-75dBs P.C.  
REF. 215Hz -9dB(160mV/b<sup>-1</sup>)

P.C. BOARD (B)

## **10. SCHEMATIC CIRCUIT DIAGRAM (KE-2730B)**

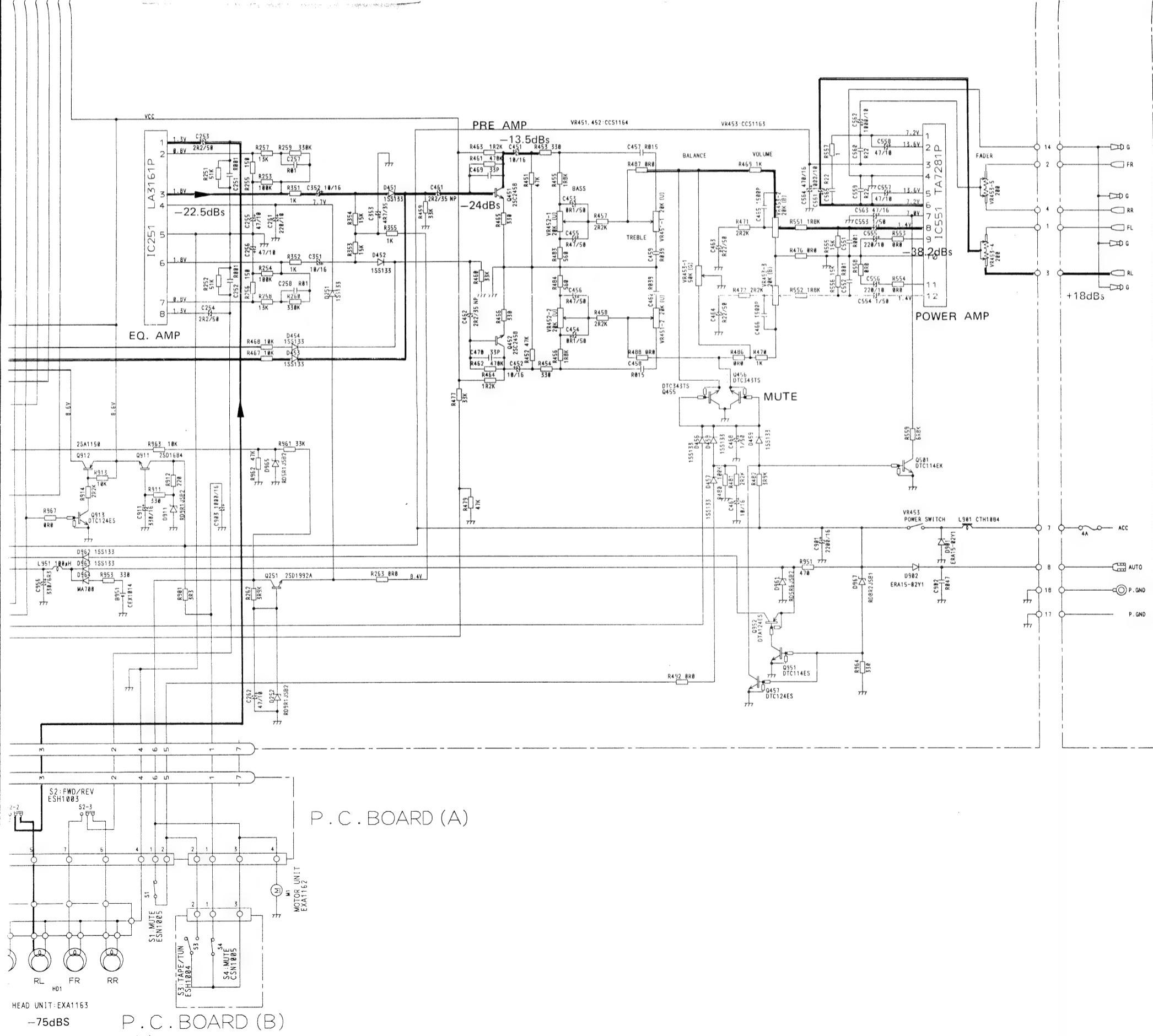


**NOTE :**  
 -□ Symbol indicates a resistor.  
 No differentiation is made between chip resistors and discrete resistors.

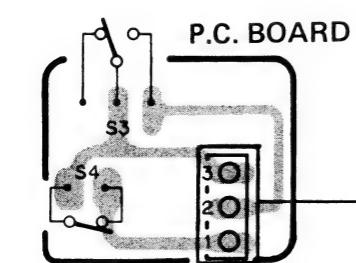
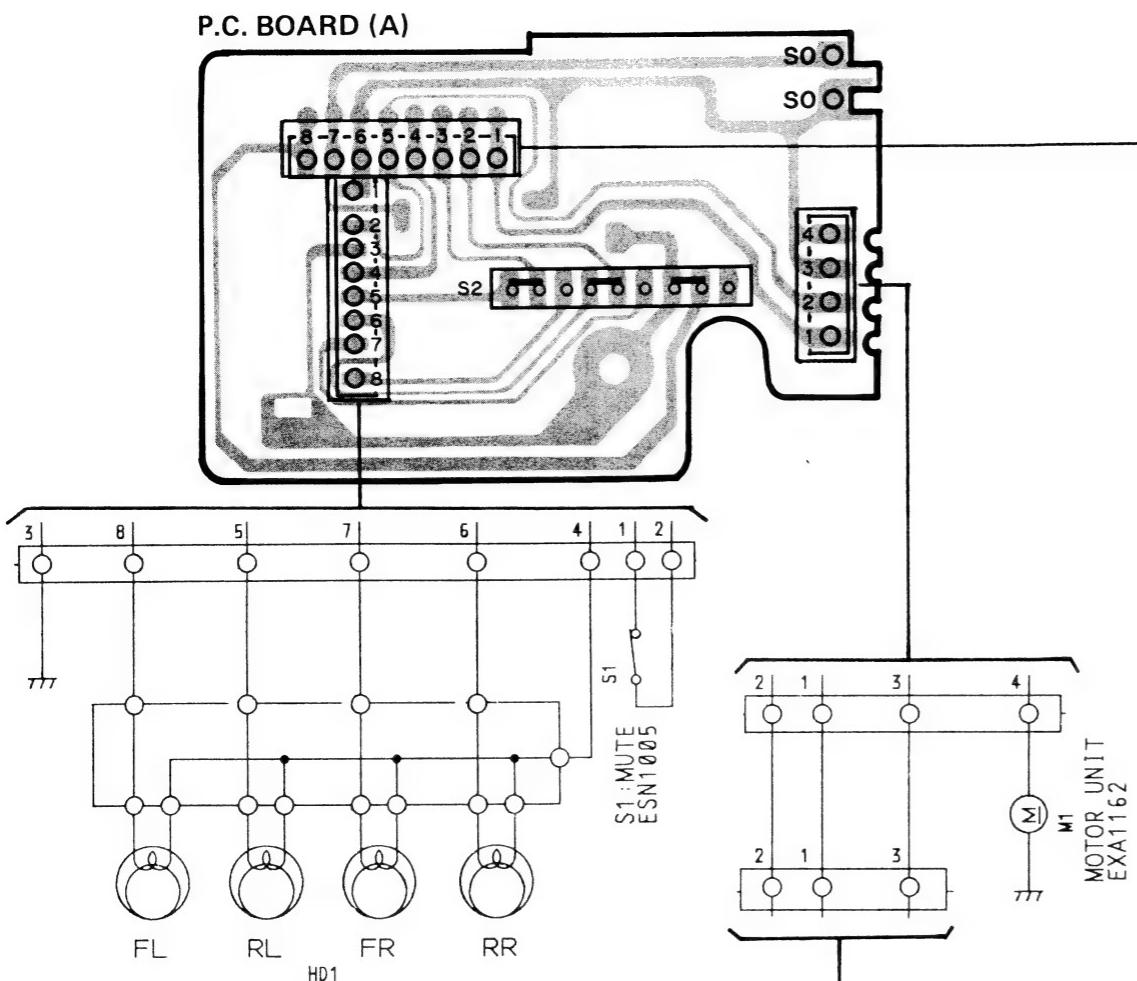
-□ Symbol indicates a capacitor.  
 No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:  
 $2.2 \rightarrow 2R2$   
 $0.022 \rightarrow R022$

### TUNER AMP UNIT

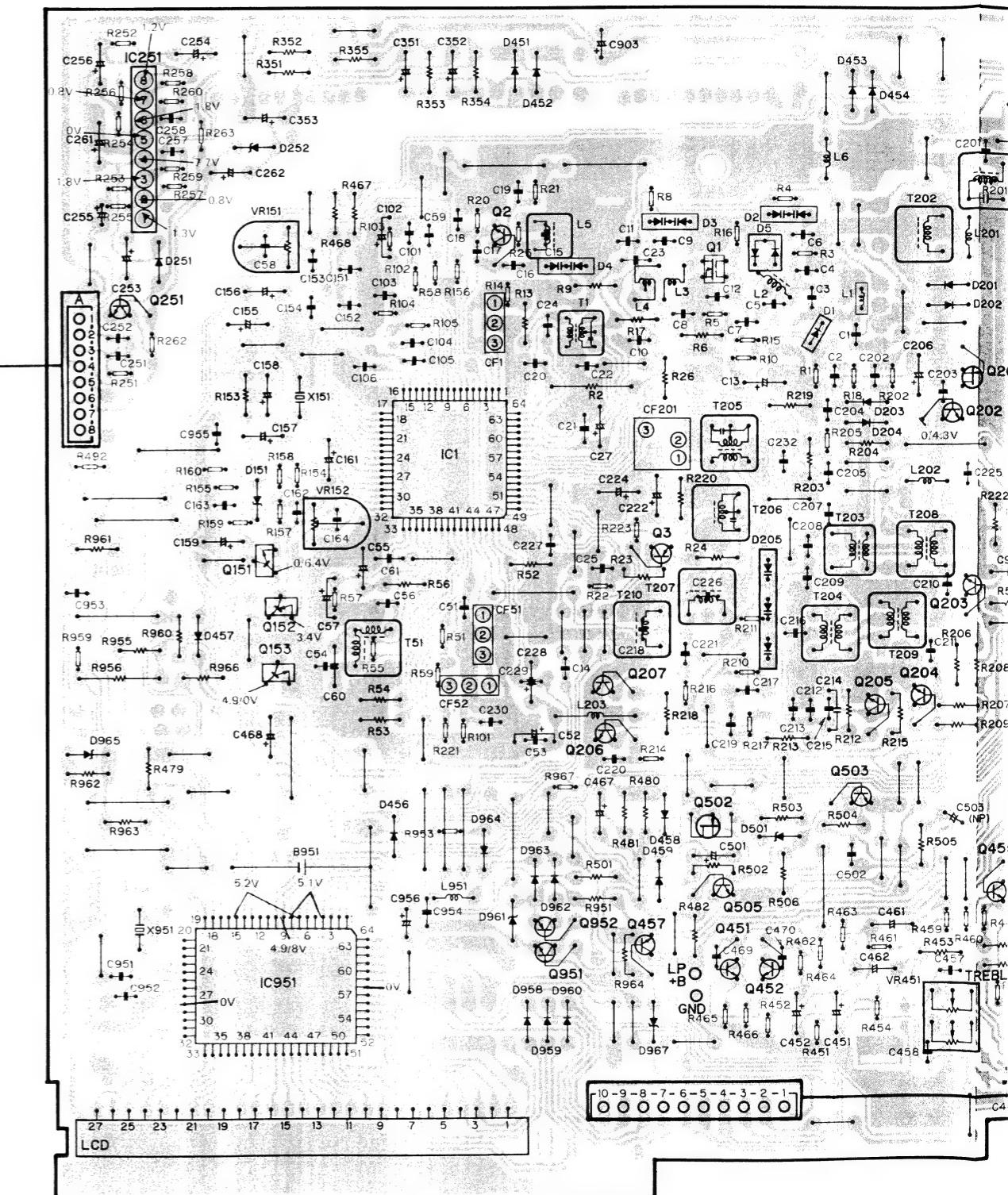


## **11. CONNECTION DIAGRAM (KE-2730B)**

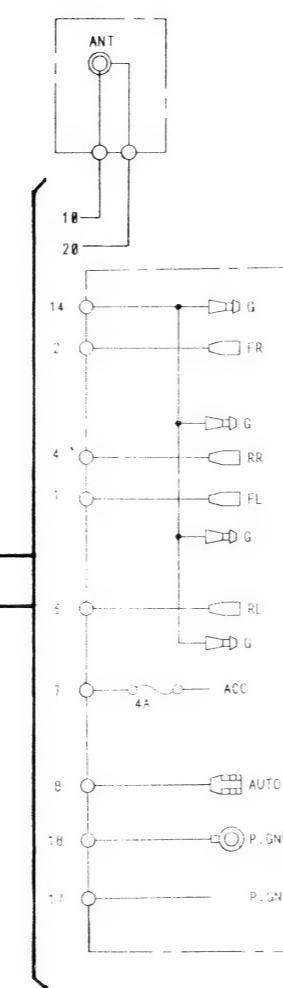
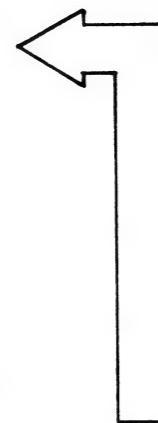
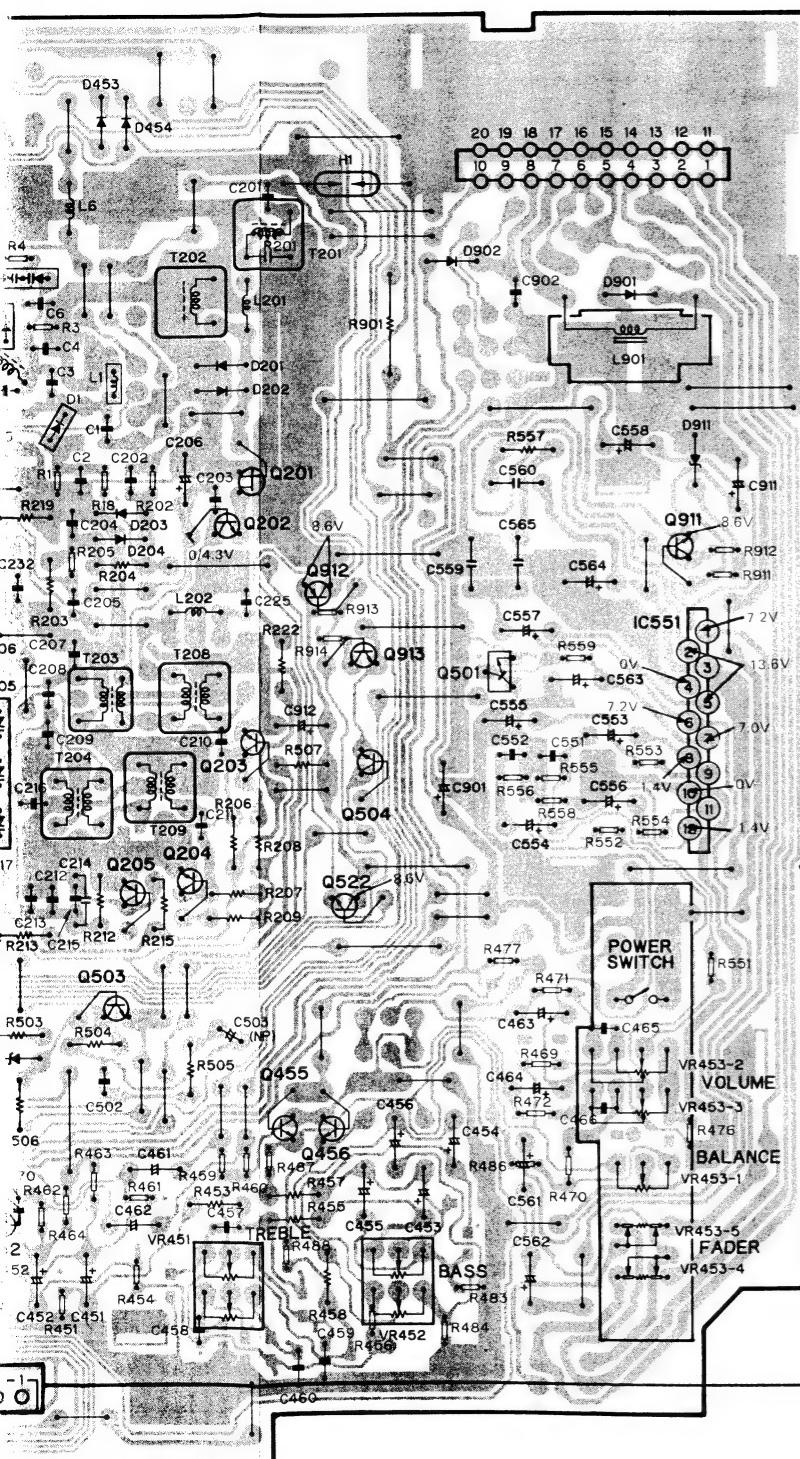


## TUNER AMP UNIT

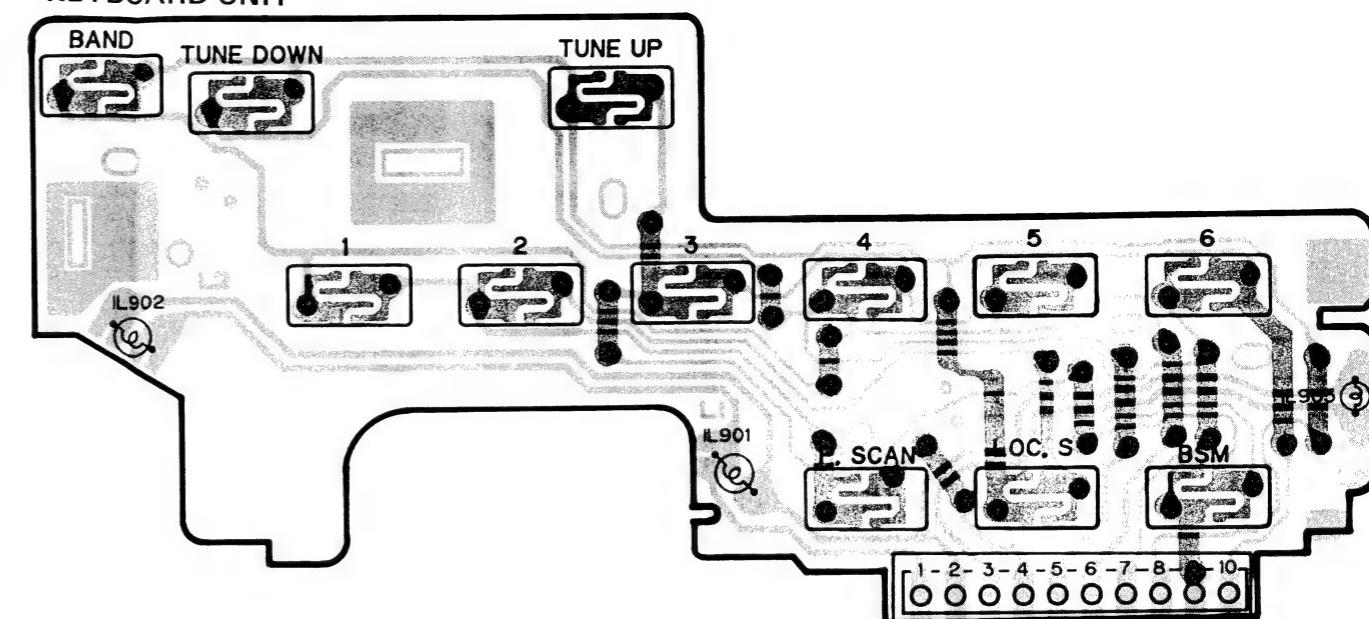
IC, Q	IC251 Q251	IC951 Q151	Q153	Q152	IC1	Q2	Q951	Q952	Q206	Q457	Q502	Q451	Q452	Q503	Q205	Q204	Q201
ADJ		VR151	VR152	T51					T1 L5	L4	T210	T205	L2	T204	T203	T208	T209



Q204 Q912 Q913  
Q201 Q456 Q504  
Q501 Q911 IC551  
Q452 Q503 Q205 Q202 Q203 Q455 Q522  
L2 T204 T203 T208  
T209



### KEYBOARD UNIT



### TUNER AMP UNIT: IC1

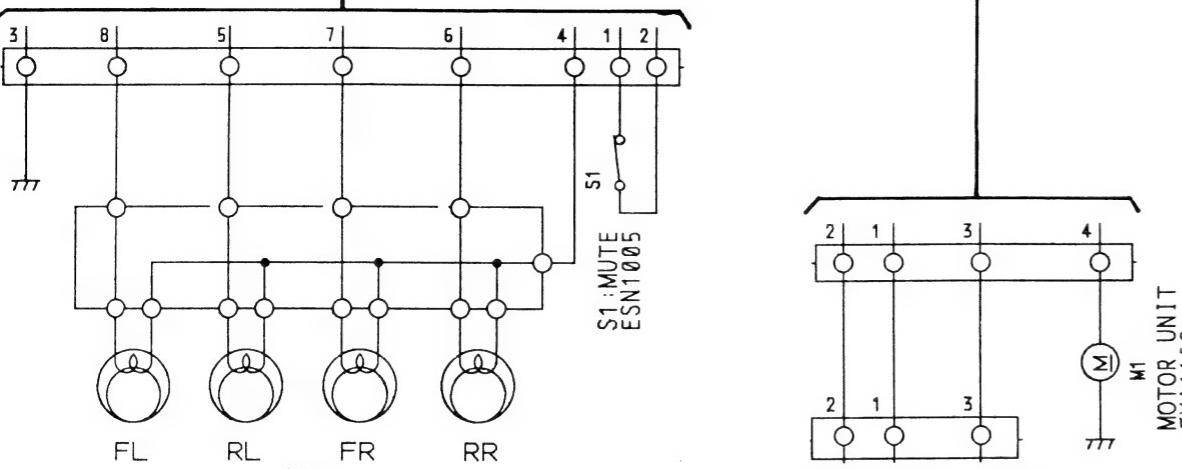
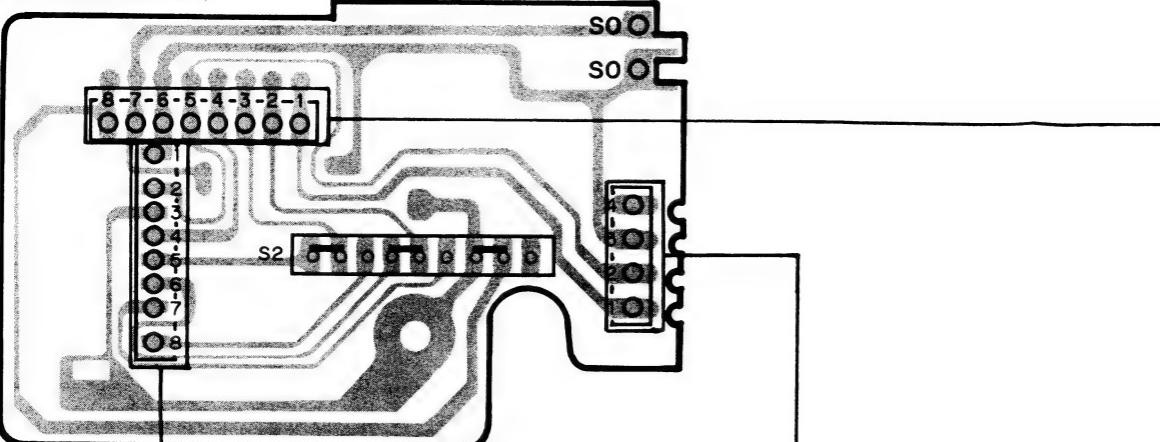
1	2	3	4	5	6	7	8	9	10
2.1V	0V				5.2V		2.9V		
11	12	13	14	15	16	17	18	19	20
4.8V	4.8V	4.8V	2.8V	0V	2.3V	2.3V	4.7V		3.5V
21	22	23	24	25	26	27	28	29	30
3.5V	3.5V	3.8V	3.5V	3.5V	4.8V		0/4.1V	0/3.5V	0V
31	32	33	34	35	36	37	38	39	40
0/6.4V	3.4V								
41	42	43	44	45	46	47	48	49	50
1.3V			2.4/0V		3.3/0V	4/5.2V	3.4/3.8V	8.7V	
51	52	53	54	55	56	57	58	59	60
0.2V	0/6.9V	4.9/0V	8.7V	0/2.2V	0/4.3V		3.4/0V	8.6/0V	8.6/0V
61	62	63	64						
8.6/0V	8.6/0V								

FM/MW

Fig. 12

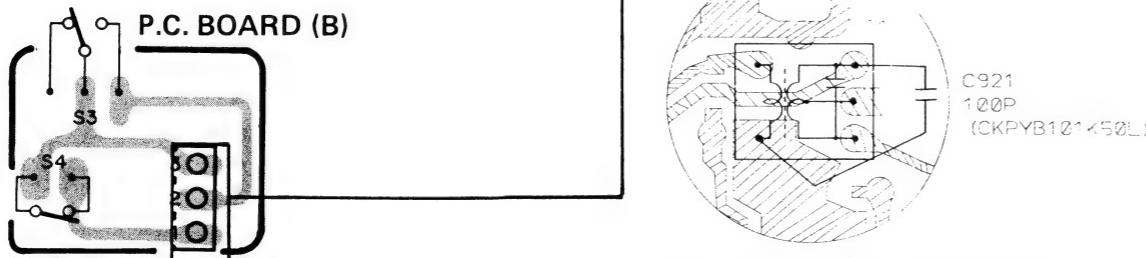
## **12. CONNECTION DIAGRAM (KE-2700B)**

## P.C. BOARD (A)



HEAD UNIT: EXA1163

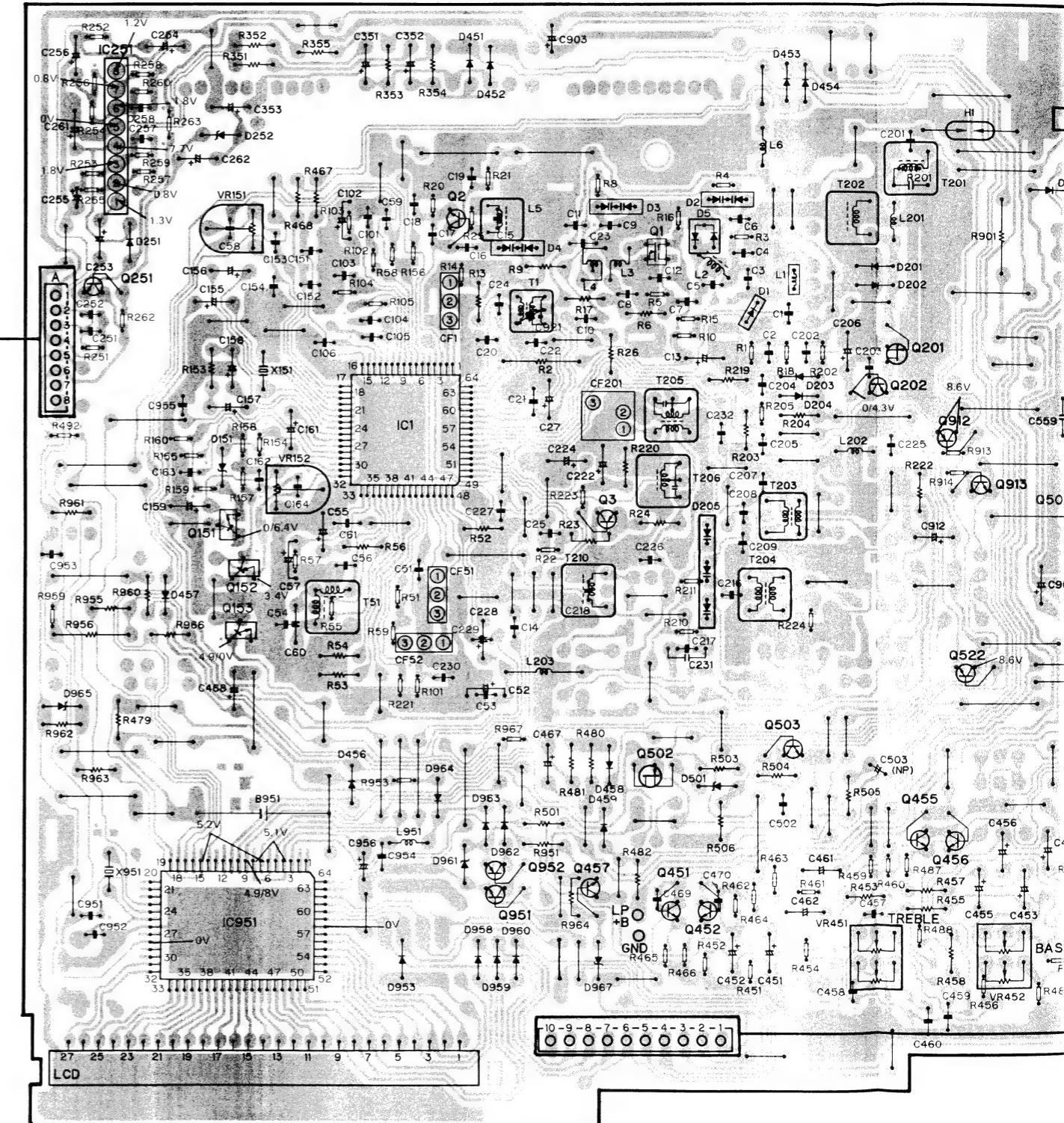
P.C. BOARD (B)



There is a C921 unit fitted with a ceramic capacitor instead of a chip capacitor. Both units are interchangeable with each other.

TUNER AMP UNIT

IC, Q	IC251 Q251	IC951	Q151	Q153	Q152	IC1	Q2	Q951	Q952	Q3 Q457	Q502	Q1 Q451	Q452	Q503	Q201	Q912 Q456	Q913 Q455
ADJ		VR151	VR152	T51			T1 L5	L4	T210	T205 T206	L2	T204	T203		Q202	Q522	



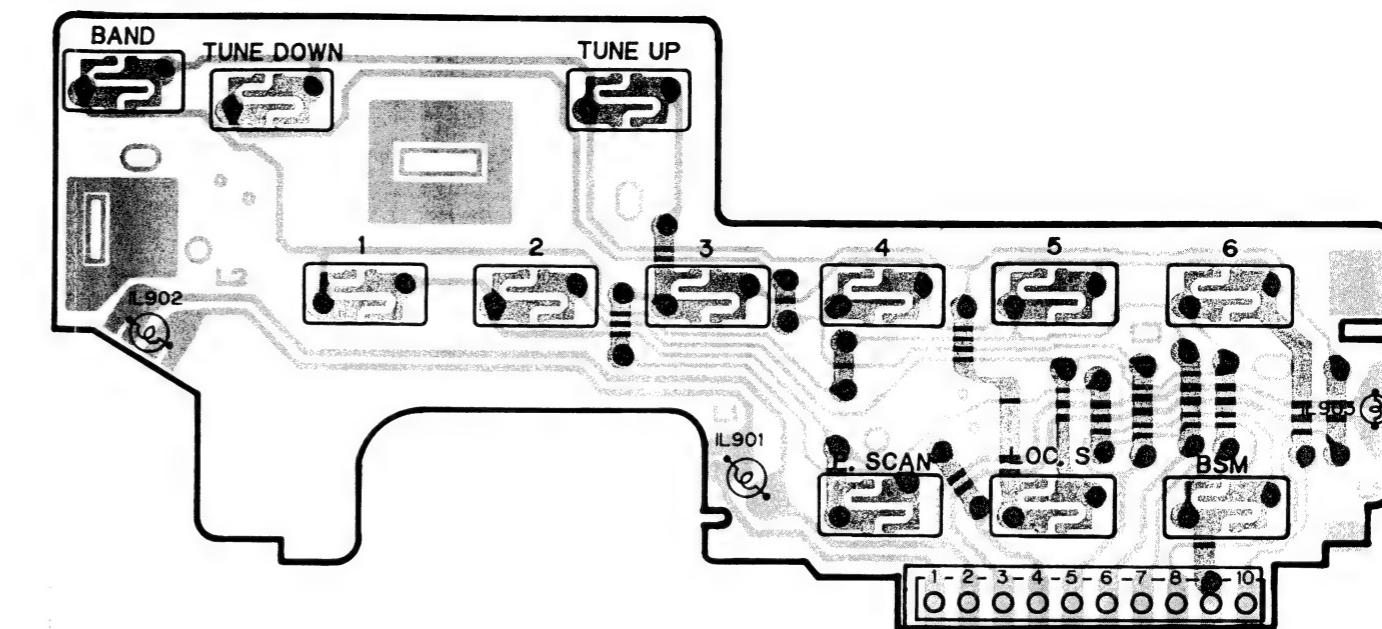
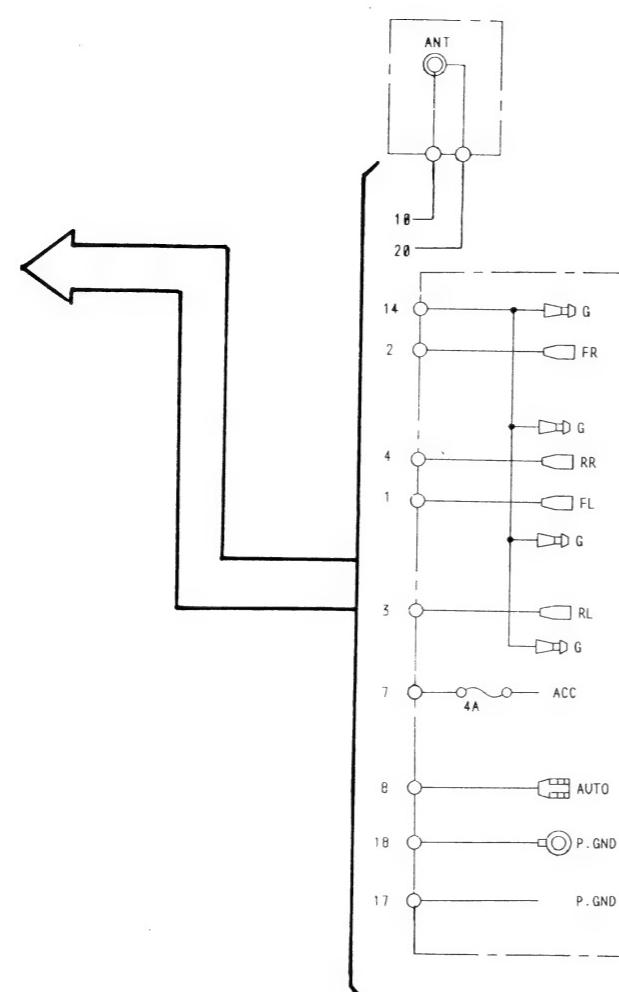
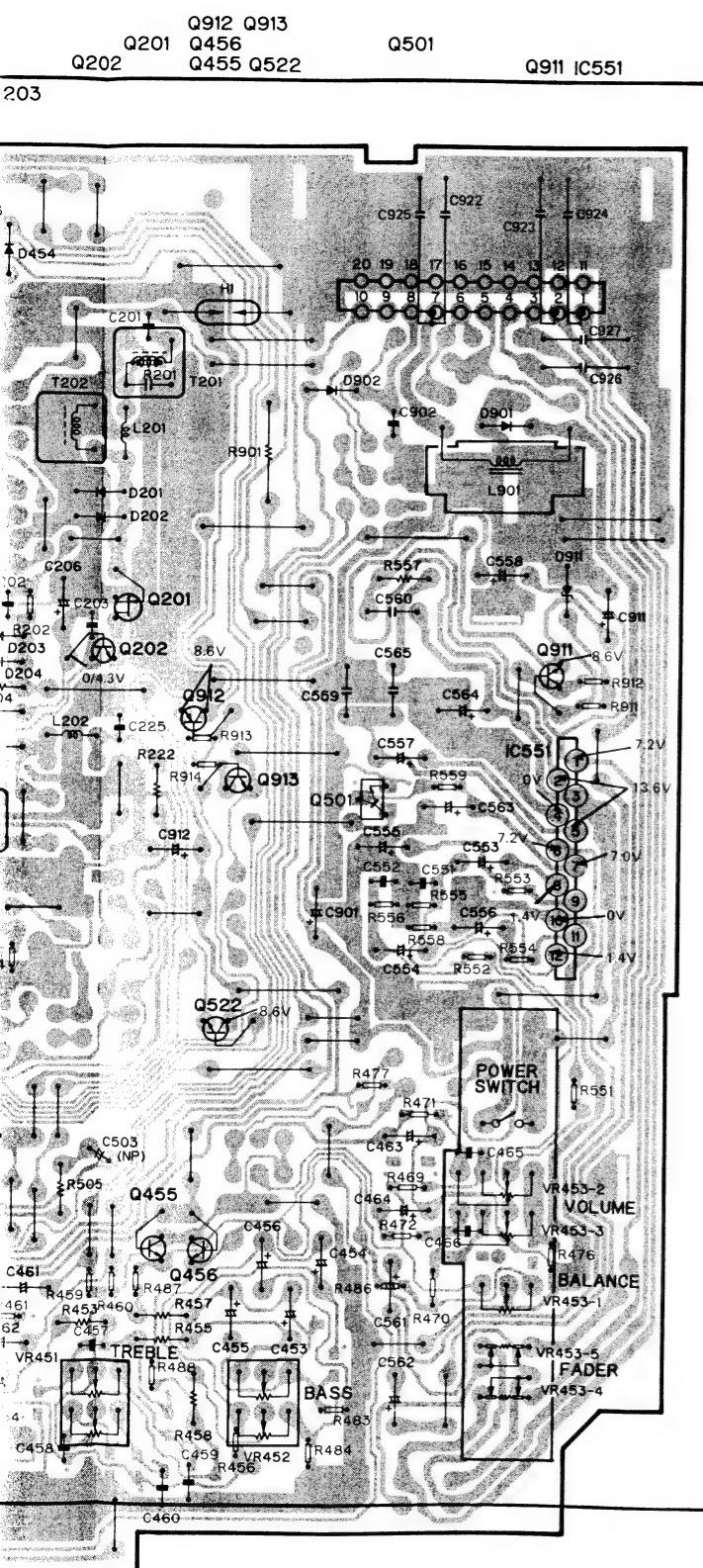
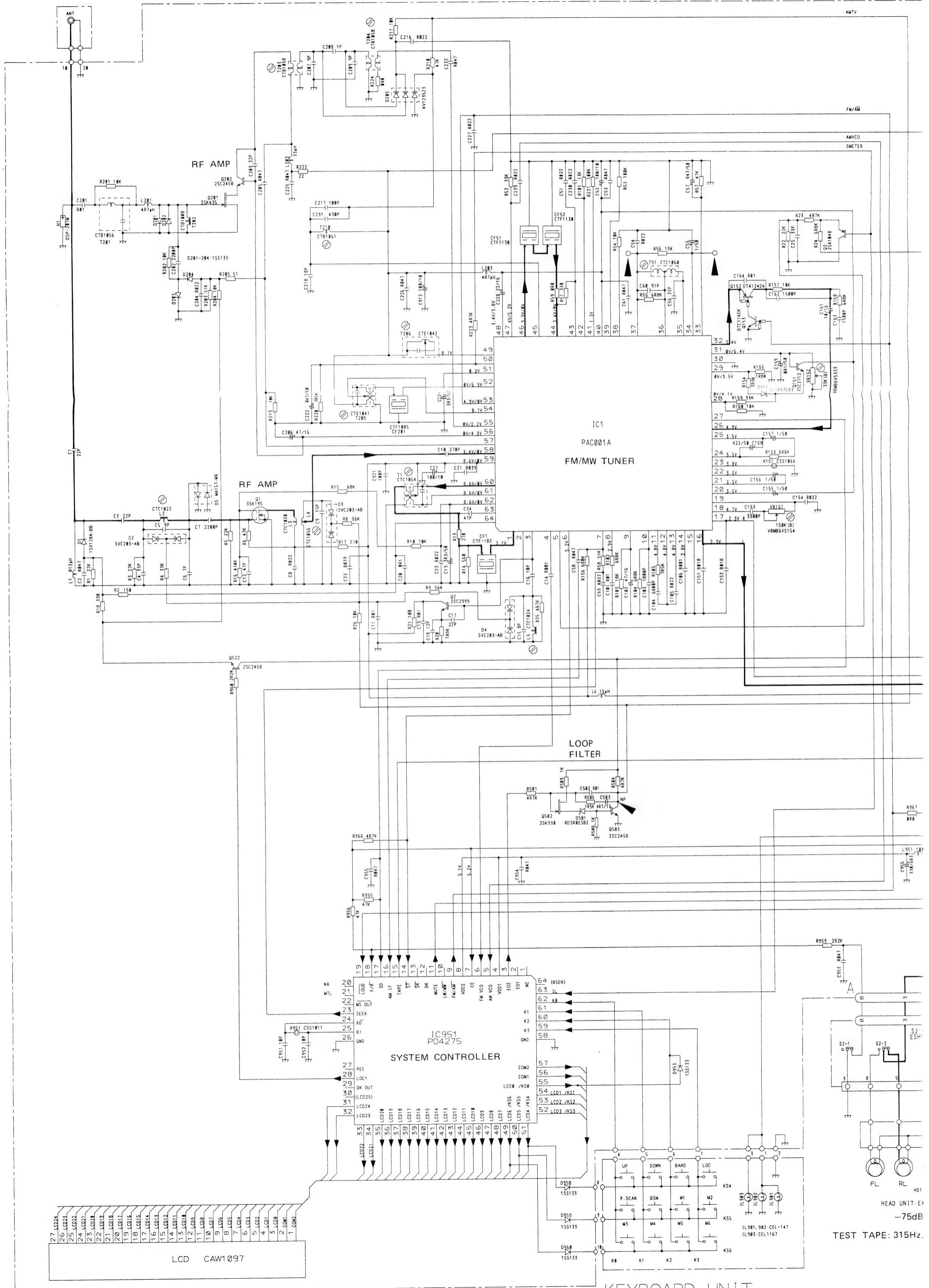
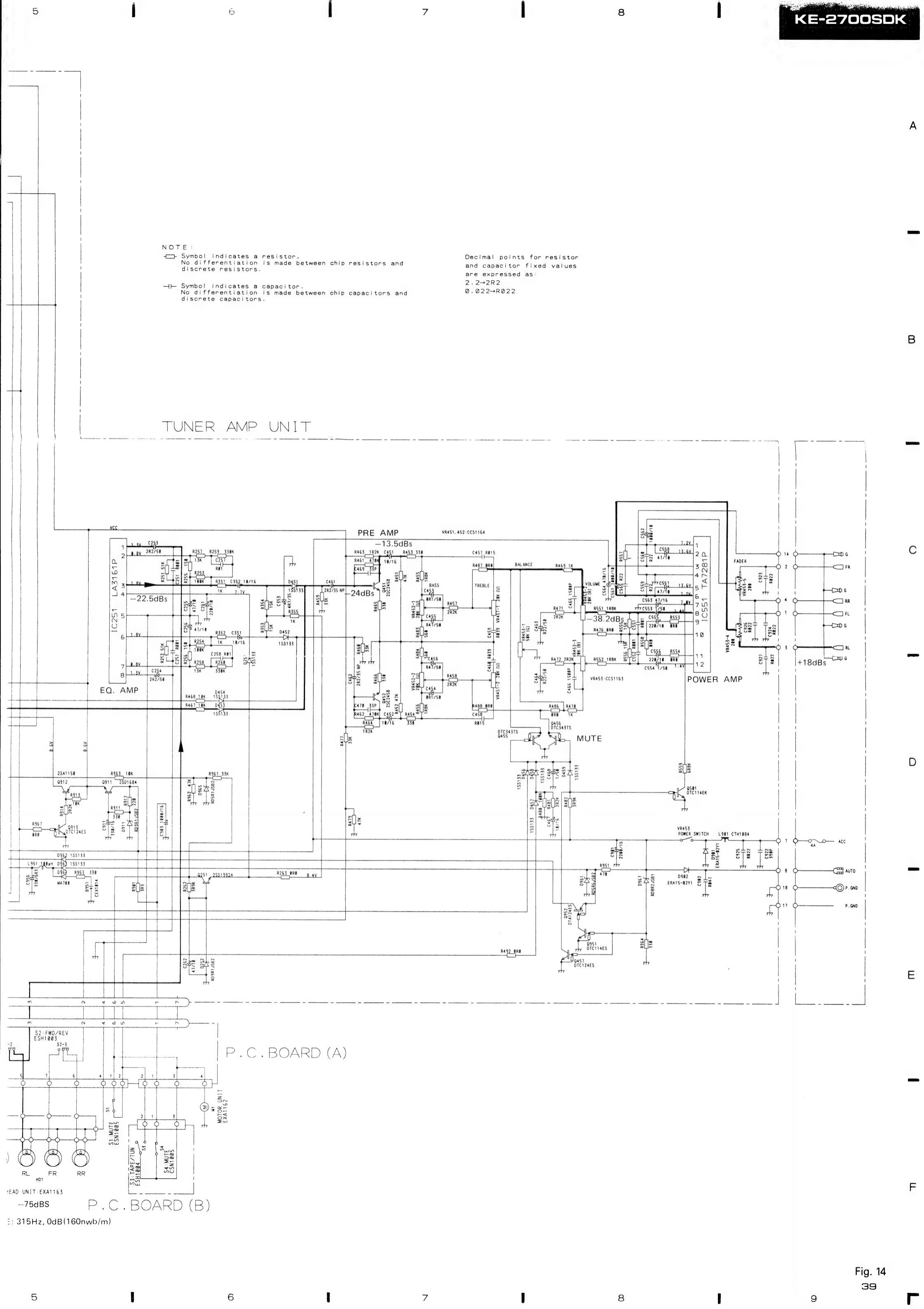


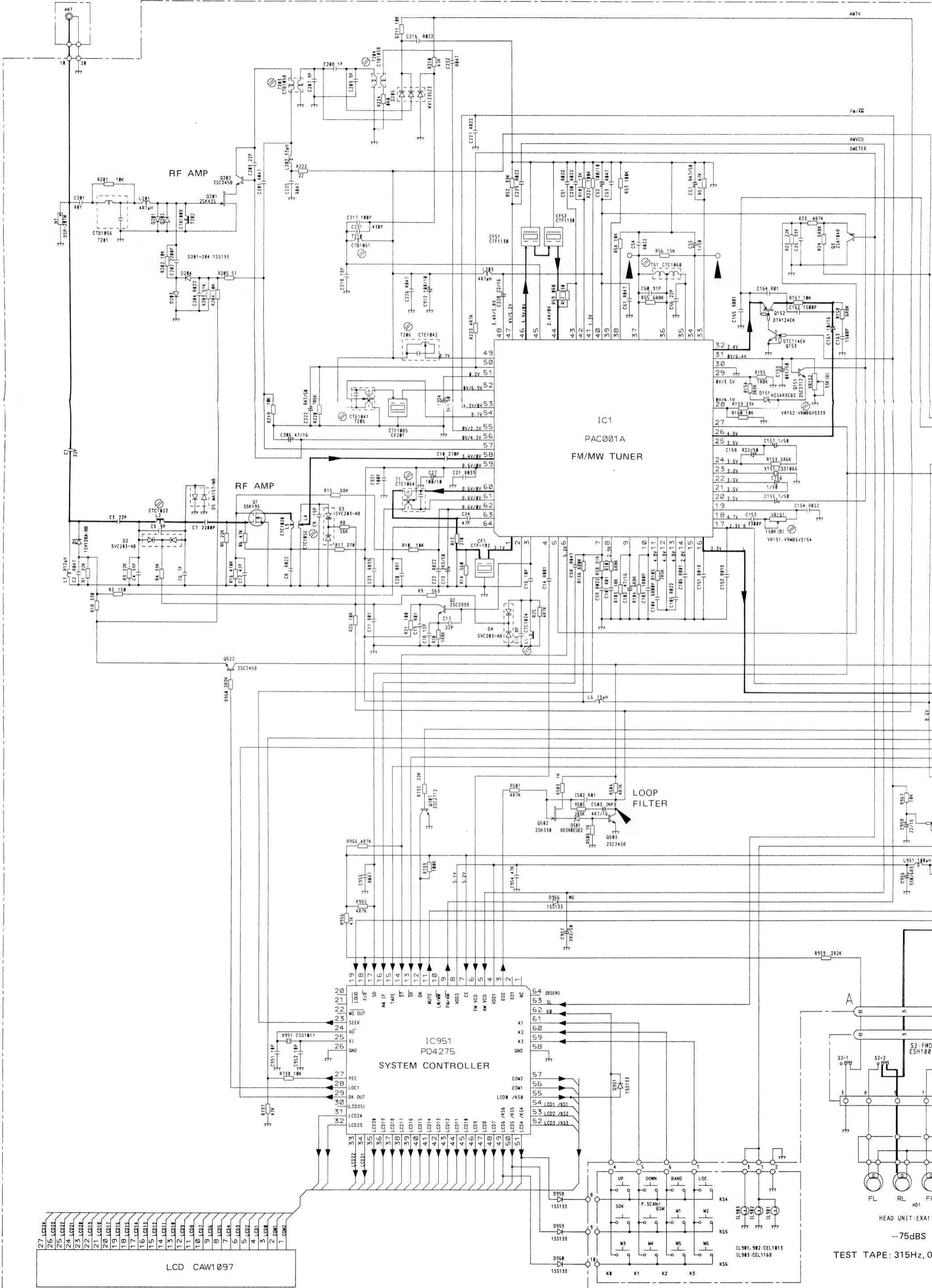
Fig. 13

### 13. SCHEMATIC CIRCUIT DIAGRAM (KE-2700B)

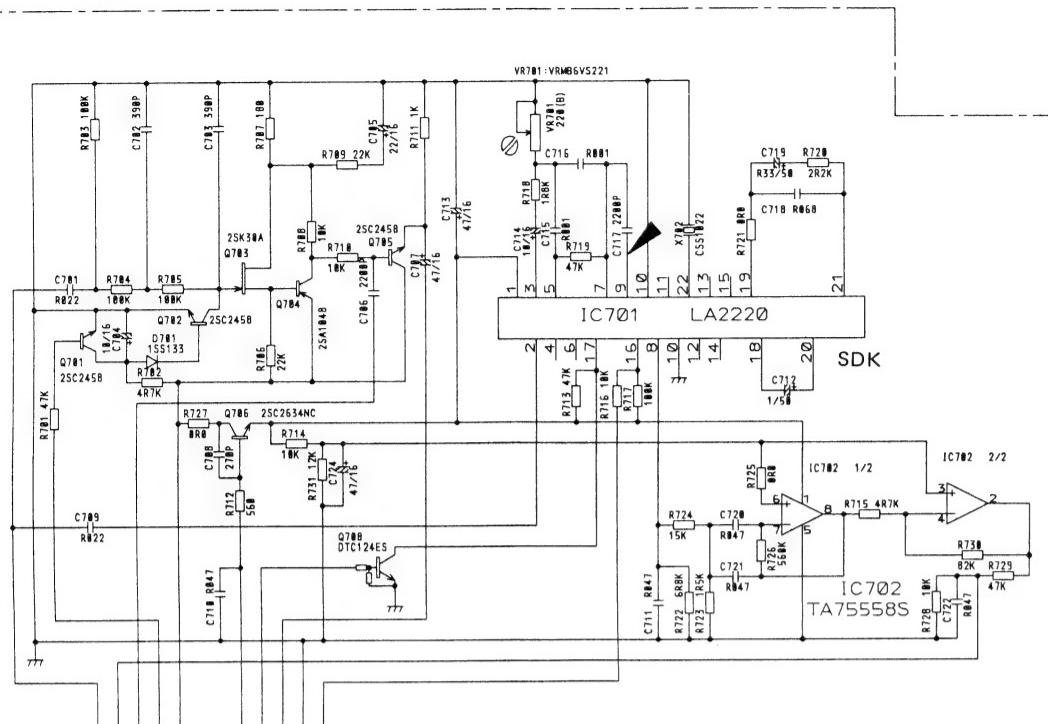




## 14. SCHEMATIC CIRCUIT DIAGRAM (KE-1700SDK)



SDK P.C. BOARD



## TUNER AMP UNIT

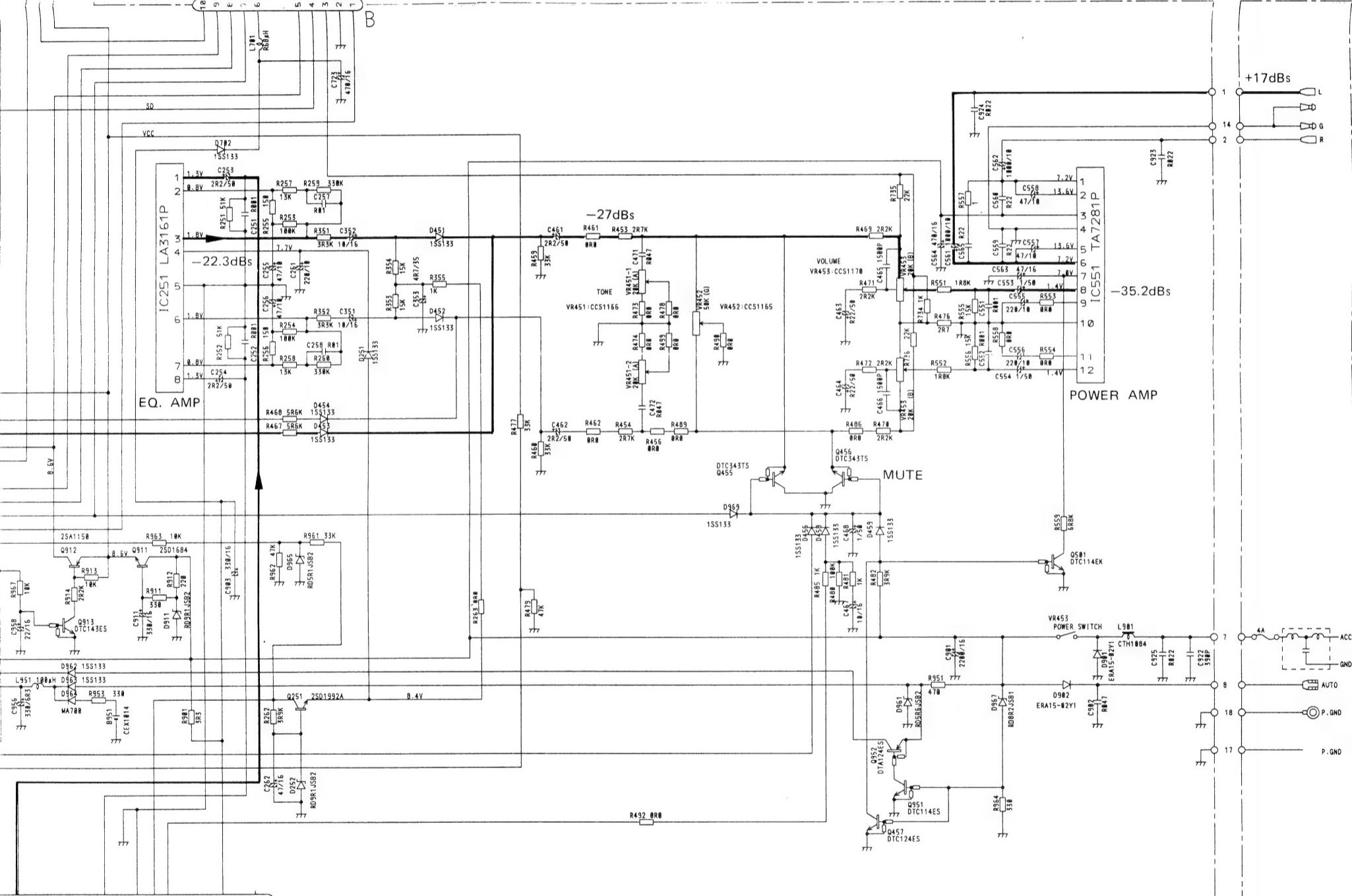
- CONSISTS OF
- SDK P.C. BOARD
- TUNER AMP P.C. BOARD

**NOTE :**  
□ Symbol indicates a resistor.  
No differentiation is made between chip resistors and discrete resistors.

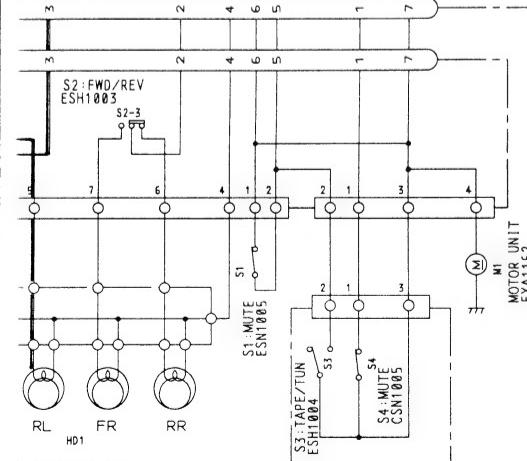
→-- Symbol indicates a capacitor.  
No differentiation is made between chip capacitors and  
discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:  
 $2.2 \rightarrow R22$   
 $0.022 \rightarrow R022$

TUNER AMP P.C.B.



P . C . BOARD (A)



D UNIT: EXA1163

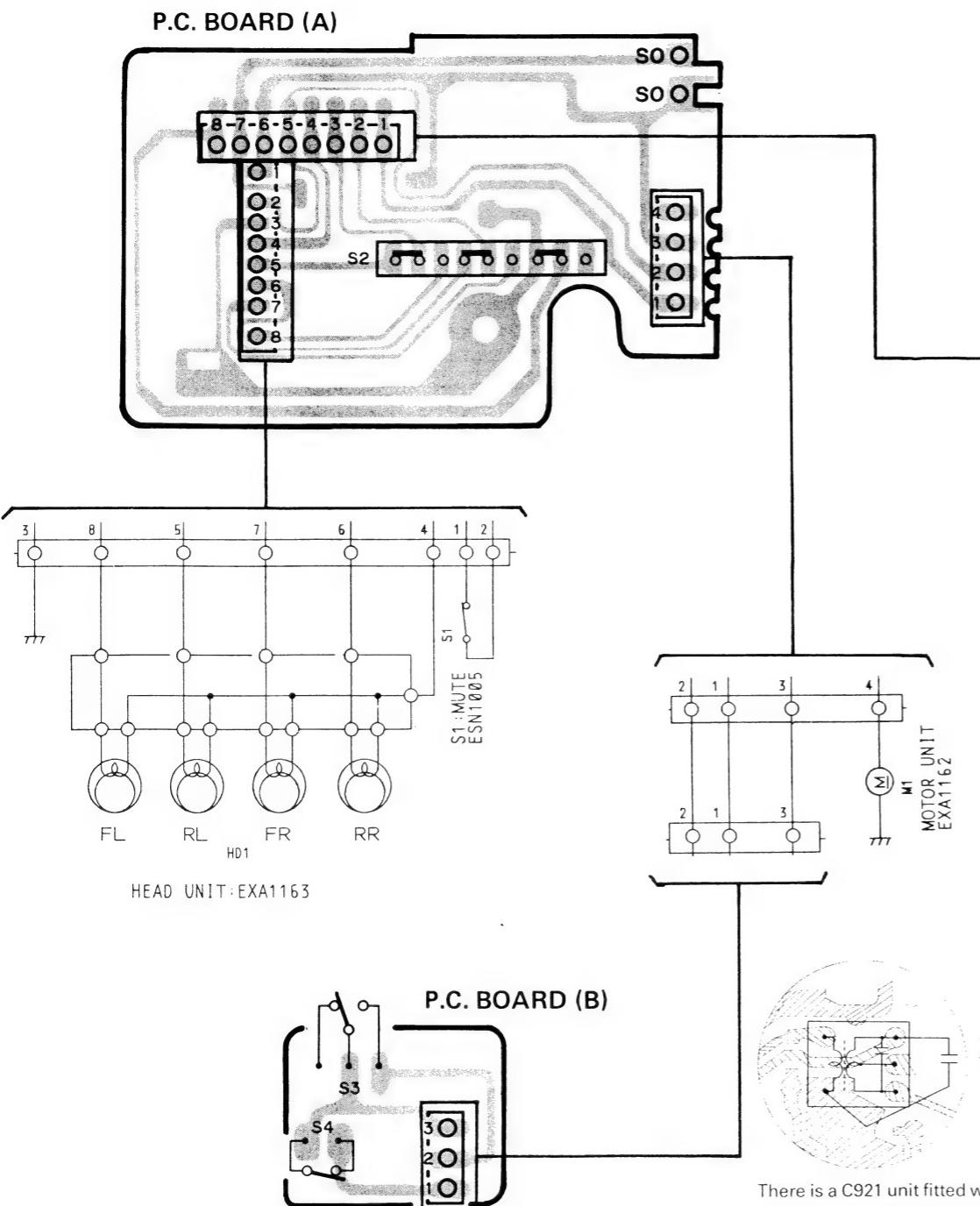
-75dBs

P . C . BOARD ( B )

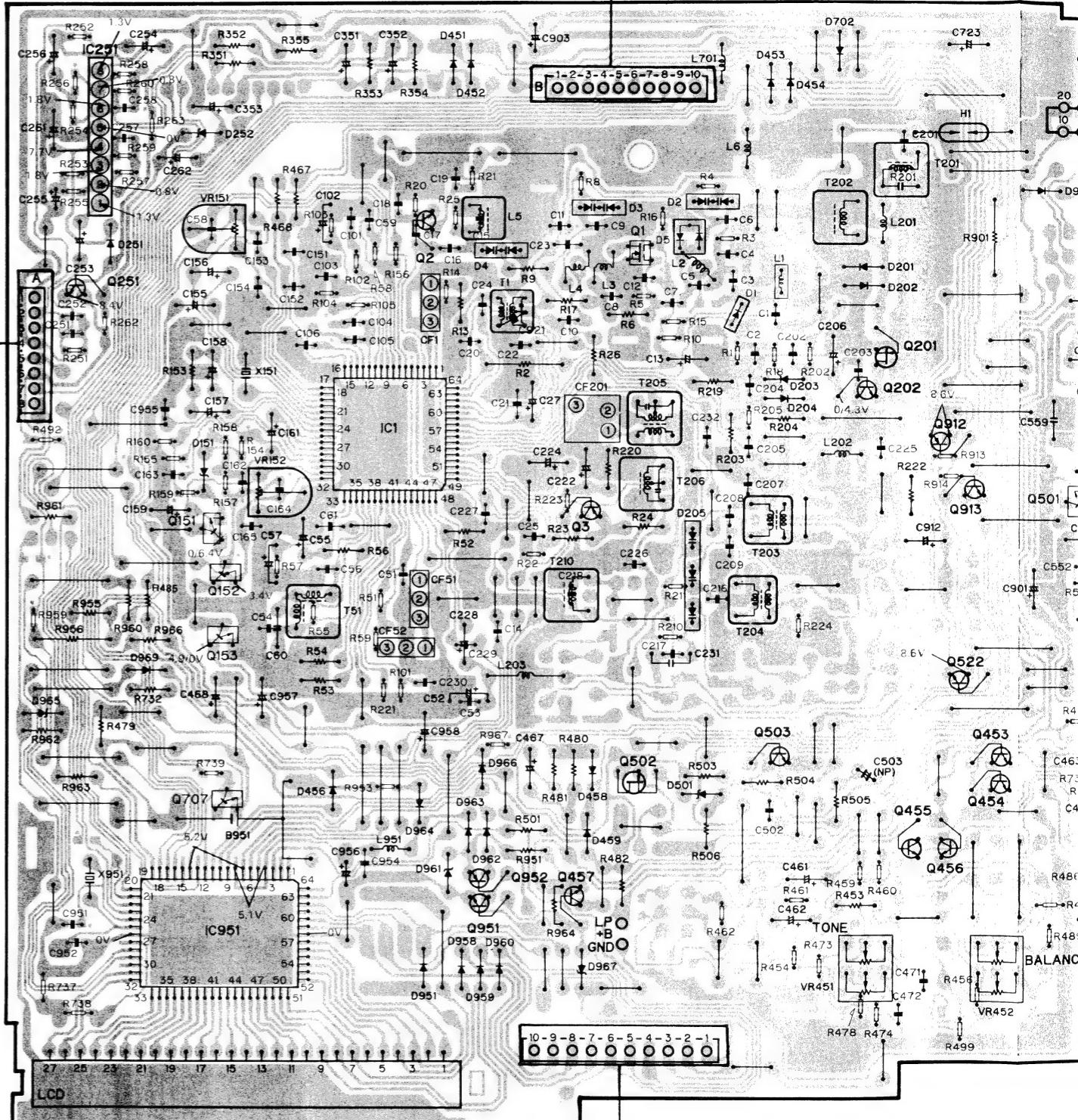
## 15. CONNECTION DIAGRAM (KE-1700SDK)

TUNER AMP P.C. BOARD

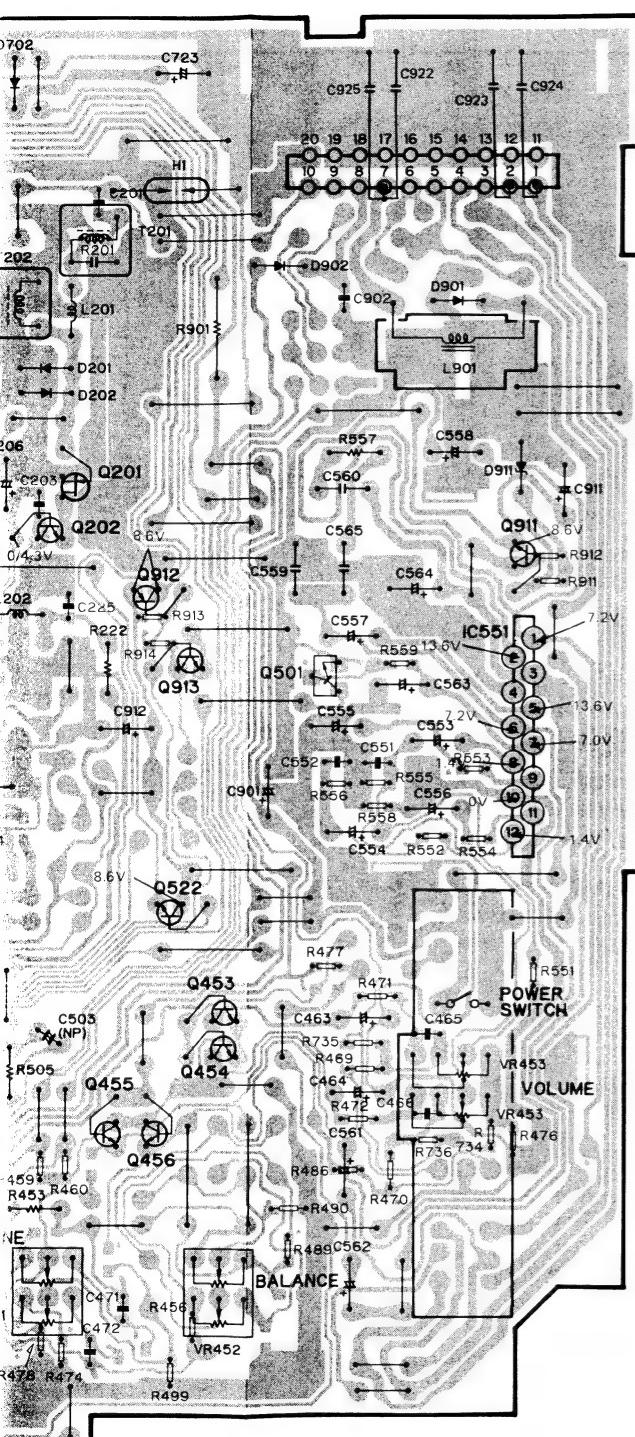
Q251 IC, Q ADJ	IC951 IC501	Q151 Q707	Q153 Q152	VR151	VR152	T51	IC1	Q2	Q952 Q951	Q3 Q457	Q502 Q501	L5 T1	L4 T210	T205	L2 T204	T203	T206	Q503	Q202 Q201	Q456 Q455	Q912 Q522	Q913
----------------------	----------------	--------------	--------------	-------	-------	-----	-----	----	--------------	------------	--------------	-------	---------	------	---------	------	------	------	--------------	--------------	--------------	------



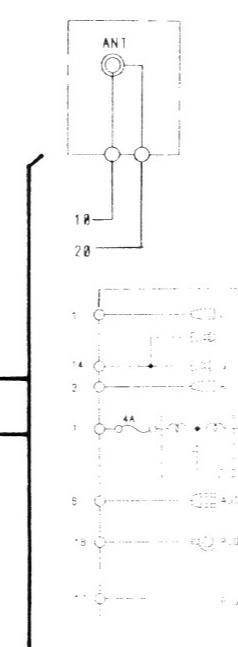
There is a C921 unit fitted with a ceramic capacitor instead of a chip capacitor. Both units are interchangeable with each other.



Q912 Q913  
Q522  
Q1 Q456 Q501 Q911  
Q455 IC551



TUNER AMP P.C. BOARD:IC

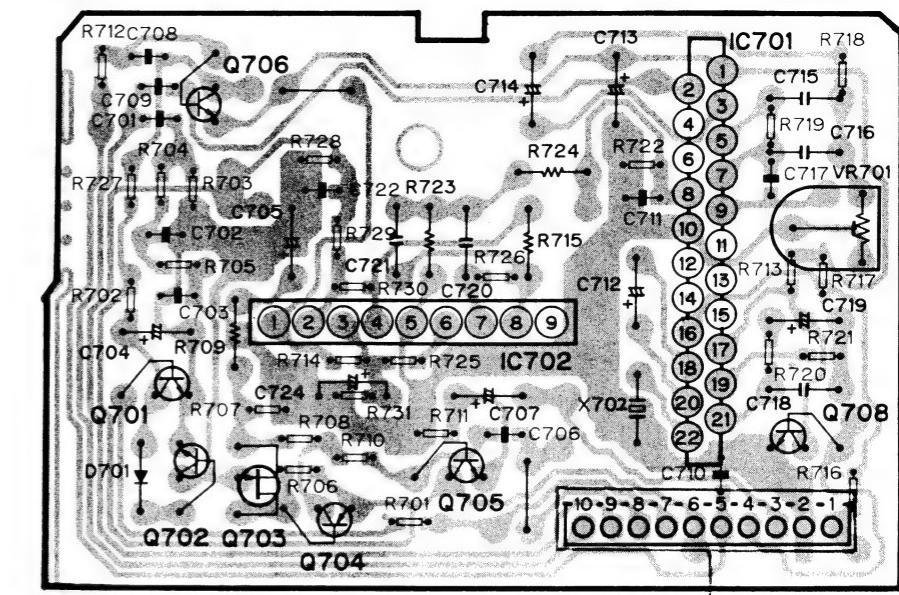


SDK P.C. BOARD

Q706 Q703  
IC. Q Q701 Q702 Q704 IC702 Q70

IC701 Q708

AD.



## KEYBOARD UNIT

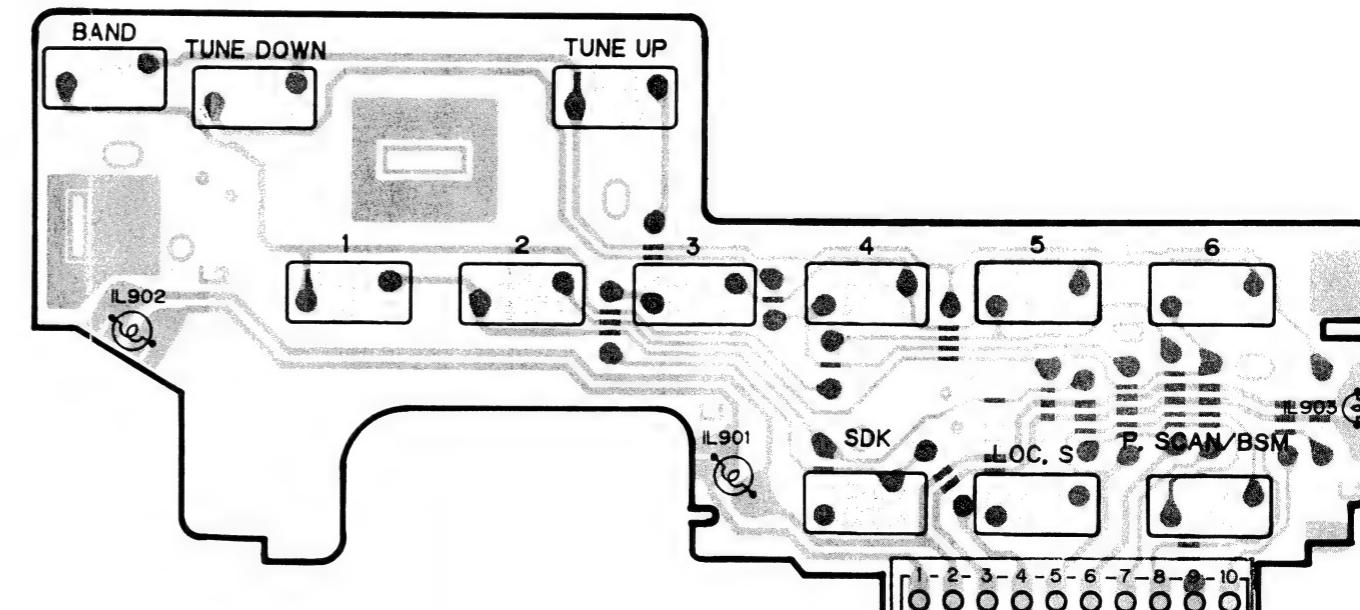
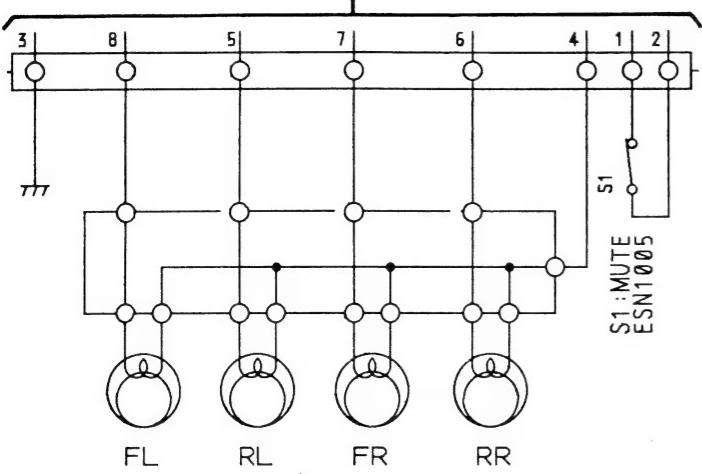
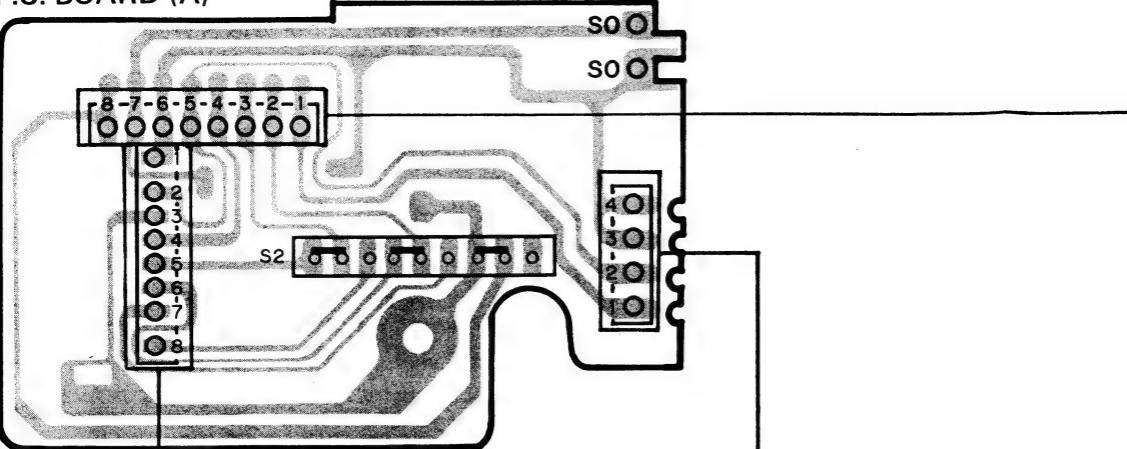


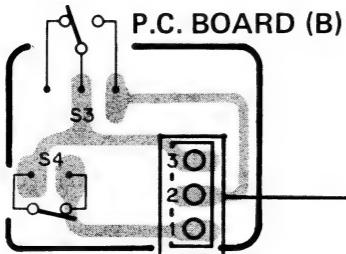
Fig. 16

## 16. CONNECTION DIAGRAM (KE-1730B)

P.C. BOARD (A)

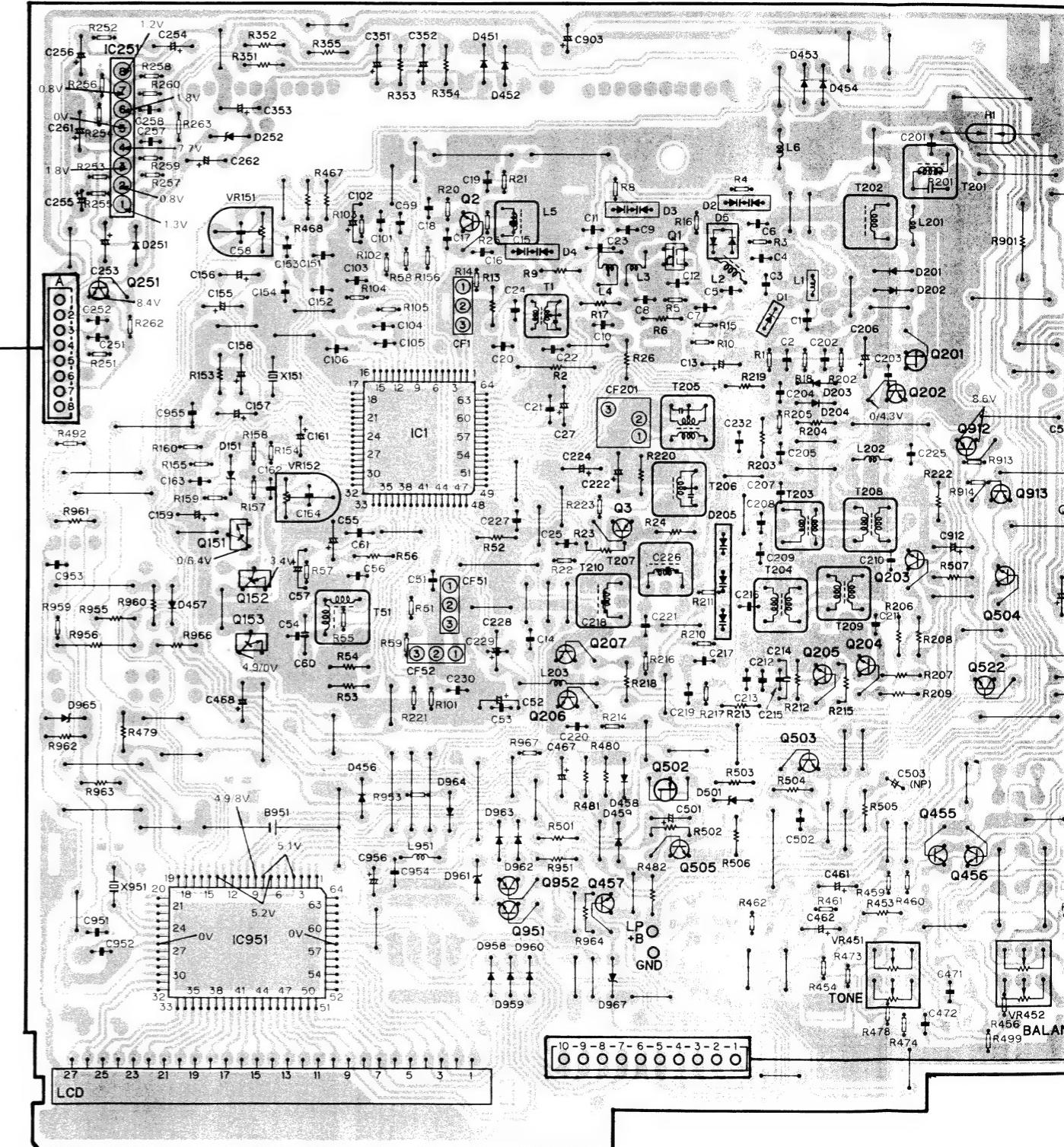


HEAD UNIT: EXA1163

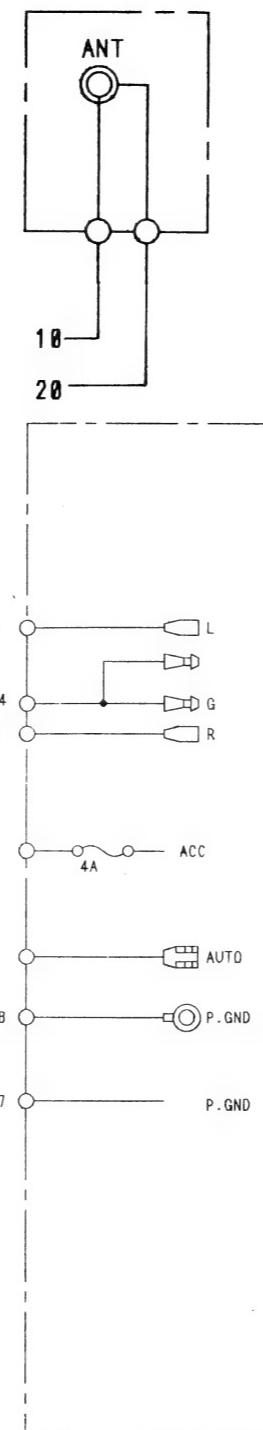
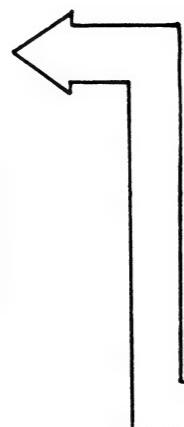
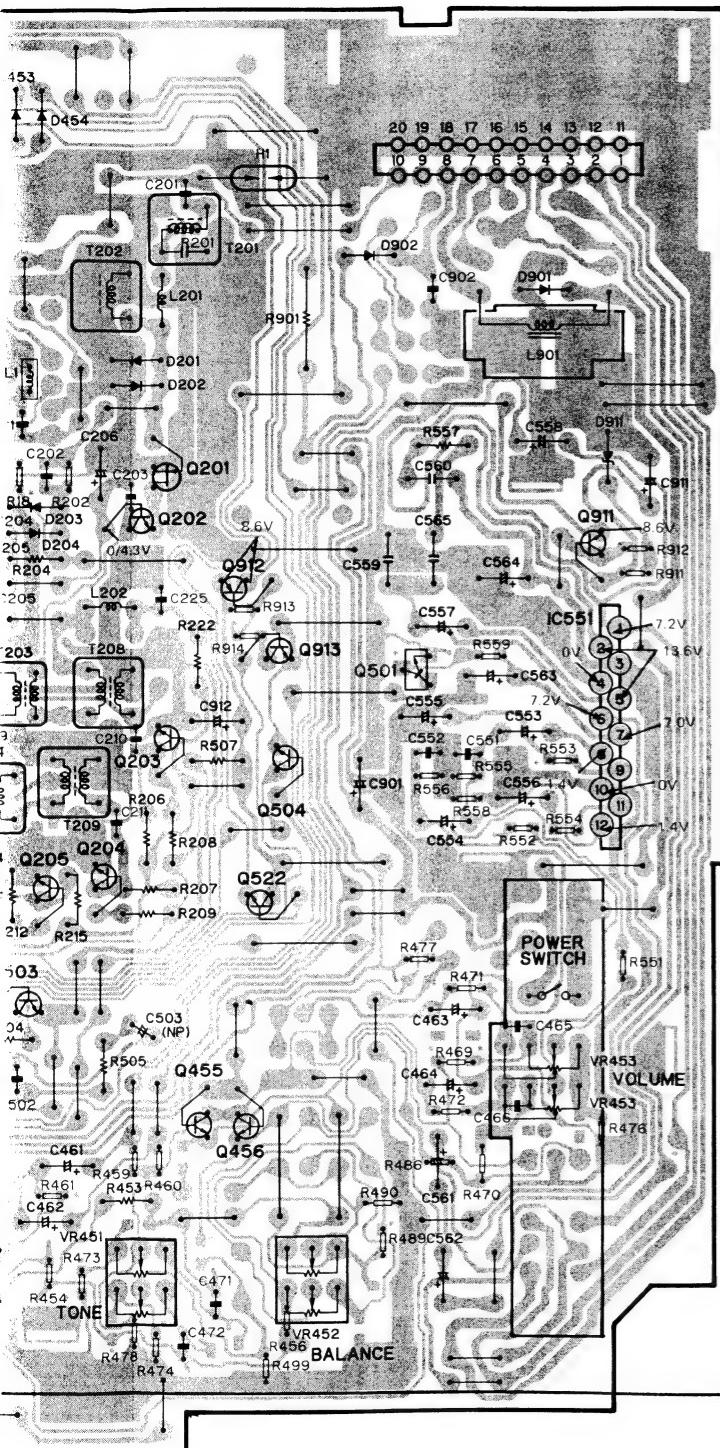


TUNER AMP UNIT

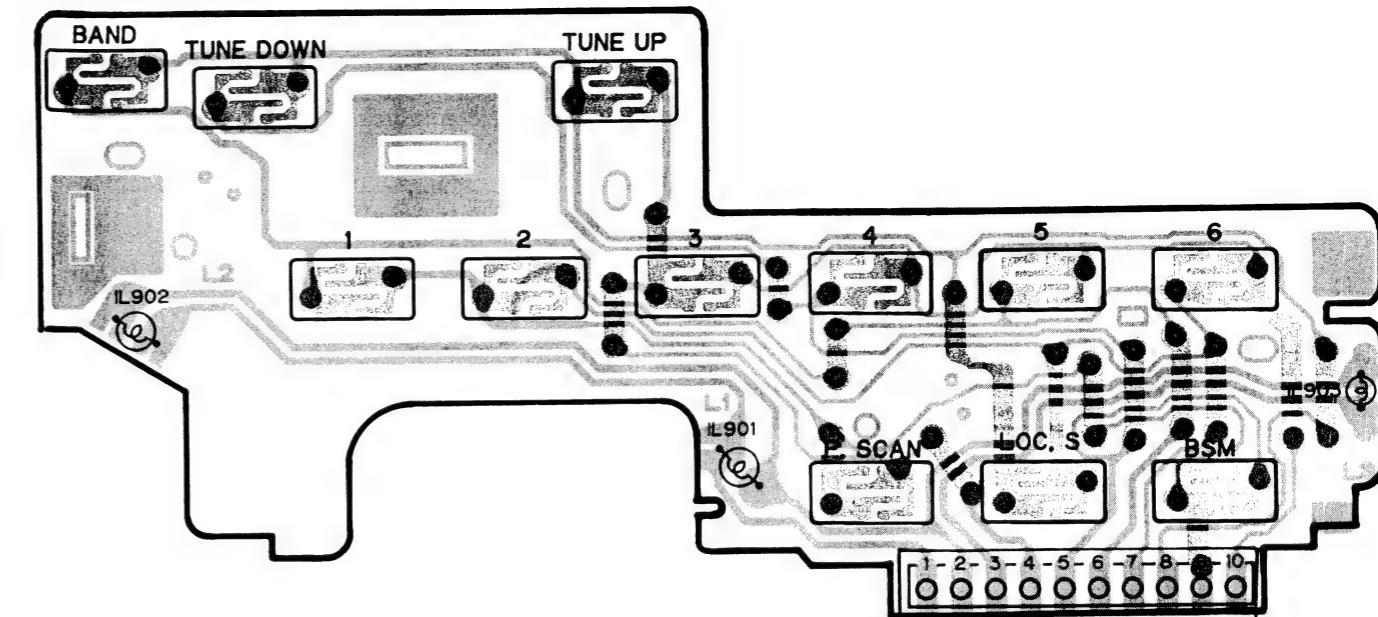
IC, Q	IC251 Q251	IC951 Q151 Q153 Q152	IC1	Q2 Q951 Q952 Q206 Q457 Q502	Q207 Q3 Q505 Q1 T1 L5 L4 T210 T205 L2 T204 T203 T208 T209
ADJ	VR151	VR152	T51		



Q204 Q912 Q913  
 Q205 Q202 Q203 Q456 Q504  
 503 Q201 Q455 Q522  
 4 T203 T208  
 T209



### KEYBOARD UNIT



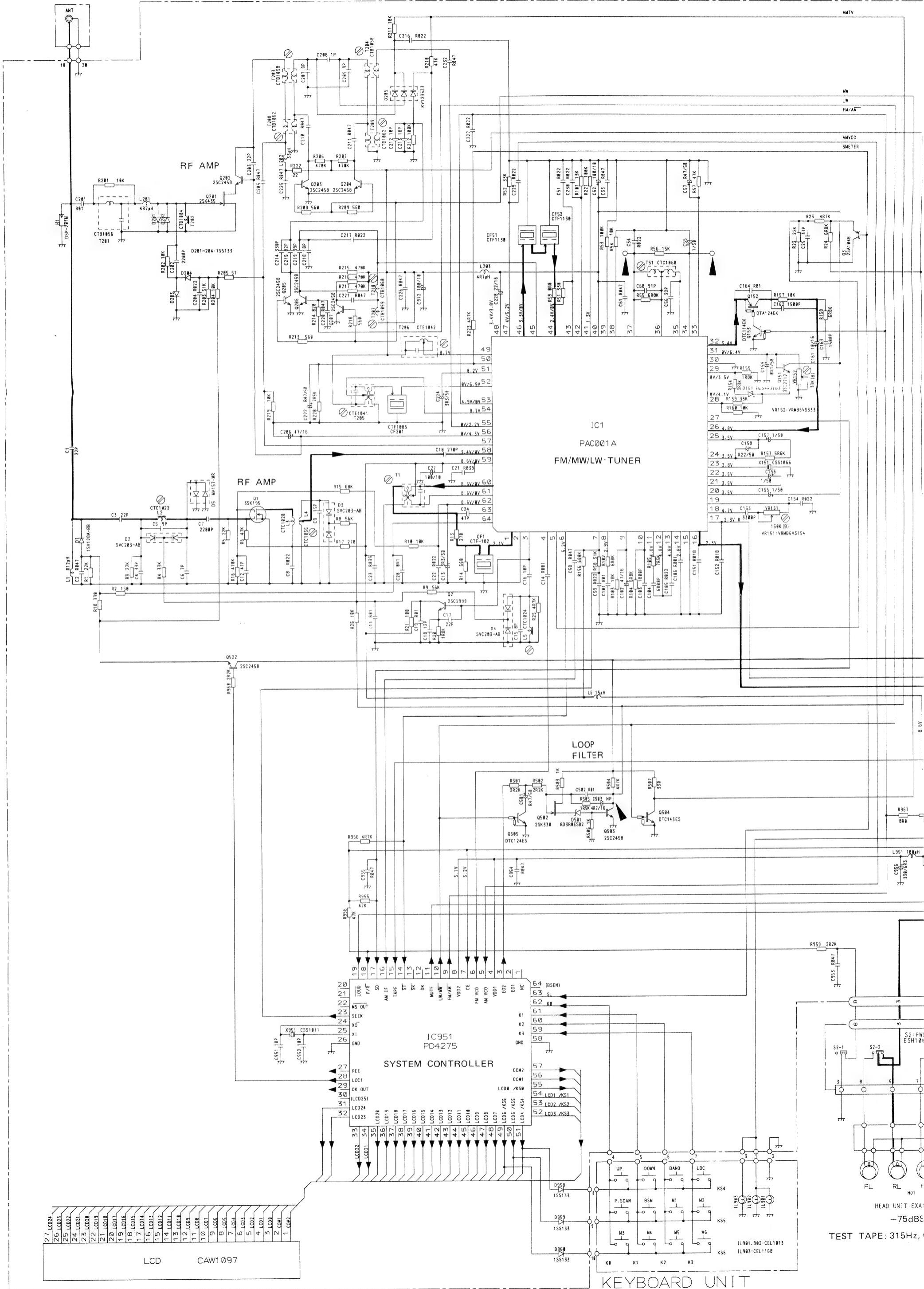
### TUNER AMP UNIT: IC1

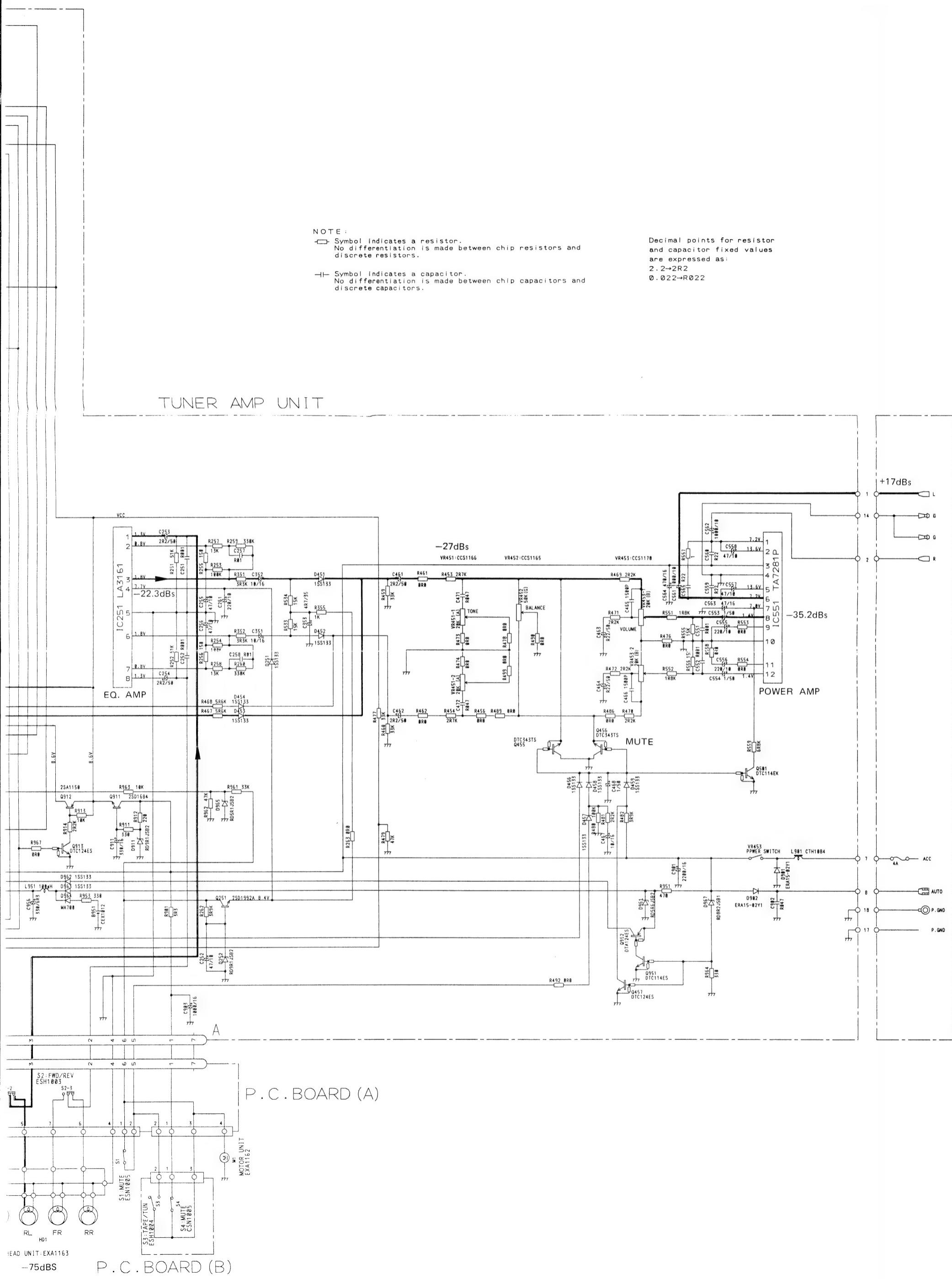
1	2	3	4	5	6	7	8	9	10
2.1V	0V				5.2V		2.9V		
11	12	13	14	15	16	17	18	19	20
4.8V	4.8V	4.8V	2.8V	0V	2.3V	2.3V	4.7V		3.5V
21	22	23	24	25	26	27	28	29	30
3.5V	3.5V	3.8V	3.5V	3.5V	4.8V		0/4.1V	0/3.5V	0V
31	32	33	34	35	36	37	38	39	40
0/6.4V	3.4V								
41	42	43	44	45	46	47	48	49	50
1.3V			2.4/0V		3.3/0V	4/5.2V	3.4/3.8V	8.7V	
51	52	53	54	55	56	57	58	59	60
0.2V	0/6.9V	4.9/0V	8.7V	0/2.2V	0/4.3V		3.4/0V	8.6/0V	8.6/0V
61	62	63	64						
8.6/0V	8.6/0V								

FM/MW

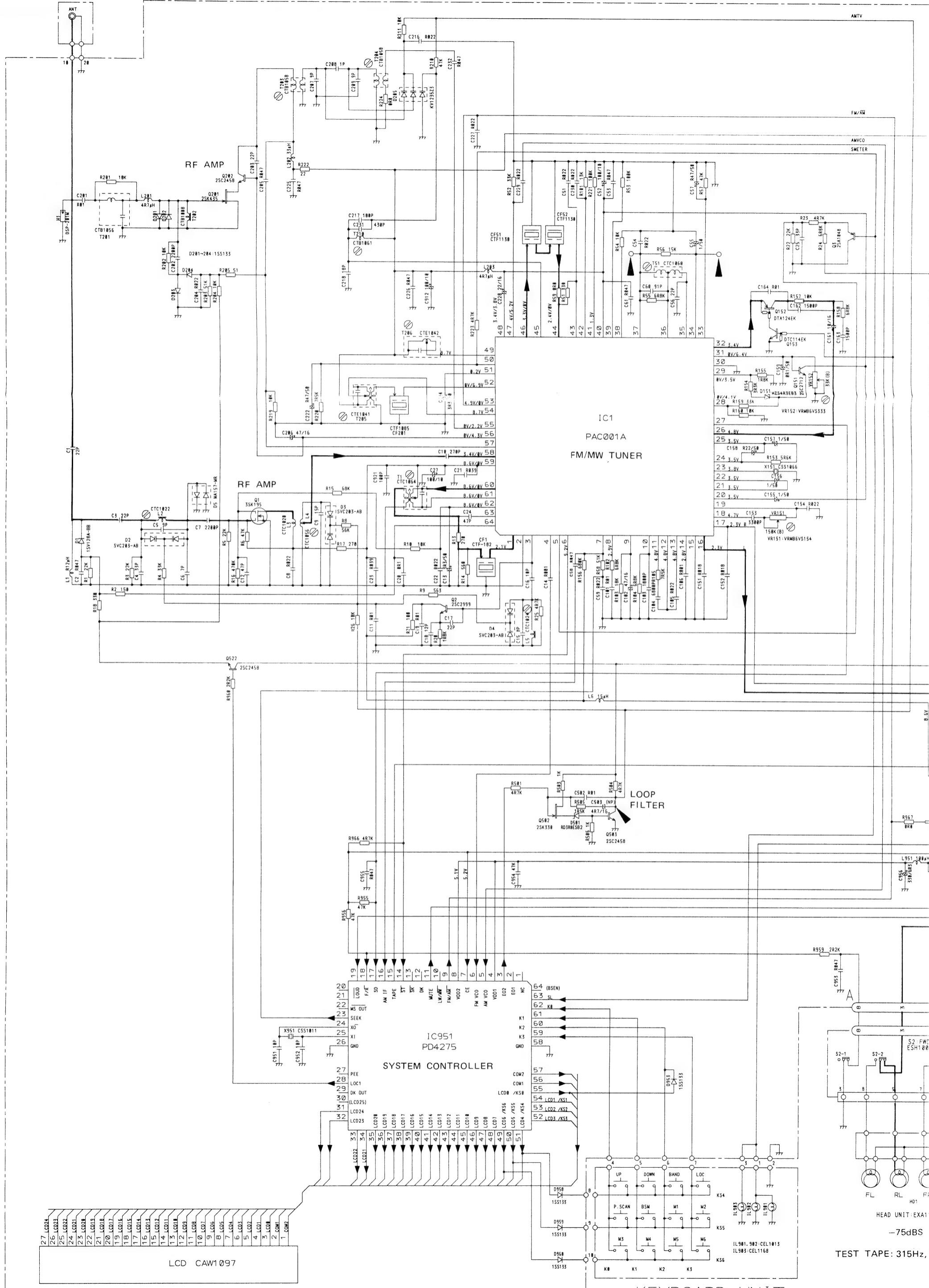
Fig. 17

## **17. SCHEMATIC CIRCUIT DIAGRAM (KE-1730B)**





## **18. SCHEMATIC CIRCUIT DIAGRAM (KE-1700B)**



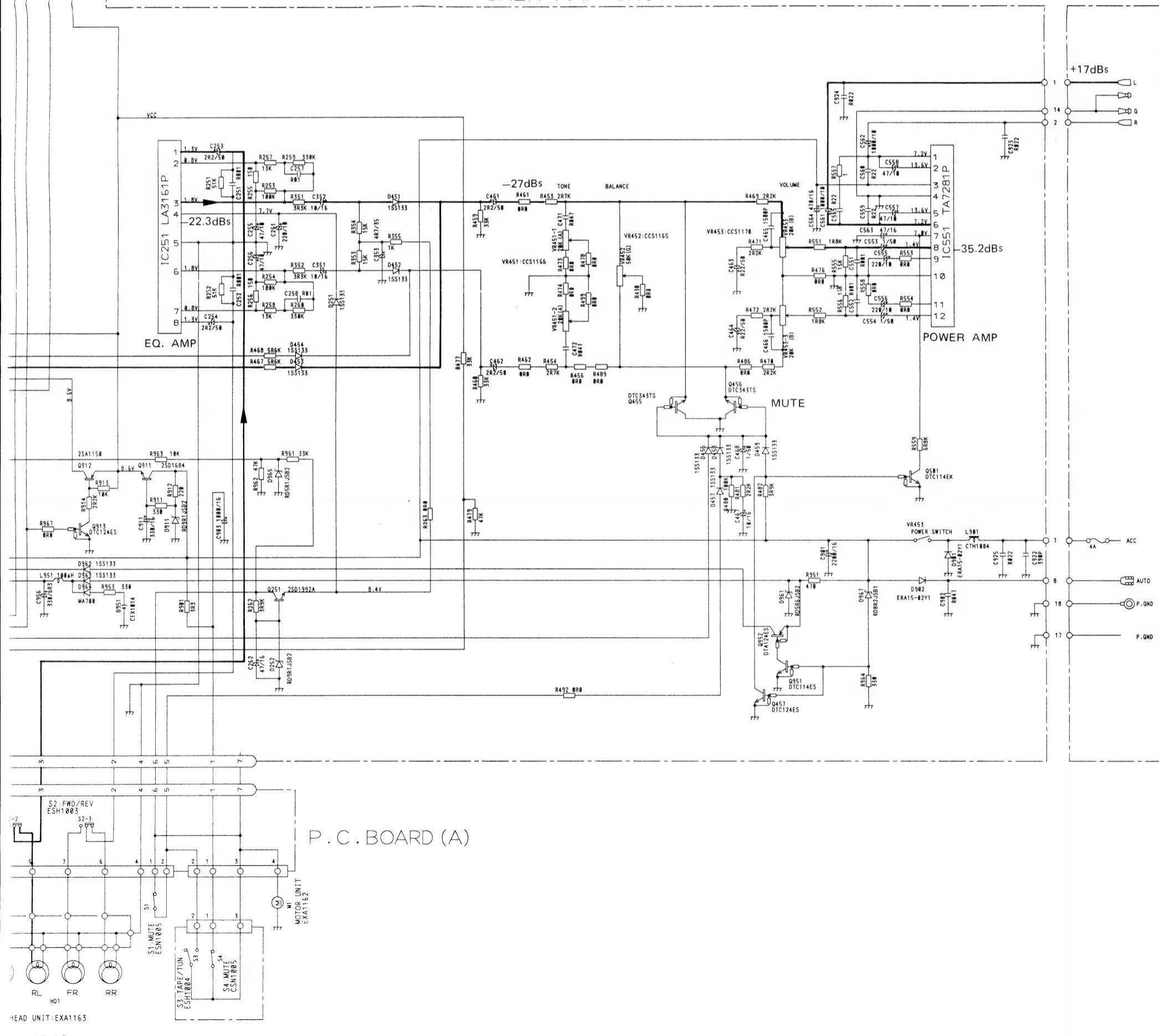
**NOTE :**

- Symbol indicates a resistor.  
No differentiation is made between chip resistors and discrete resistors.

→-|| Symbol indicates a capacitor.  
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:  
 2.2 → 2R2  
 0.022 → R022

## TUNER AMP UNIT

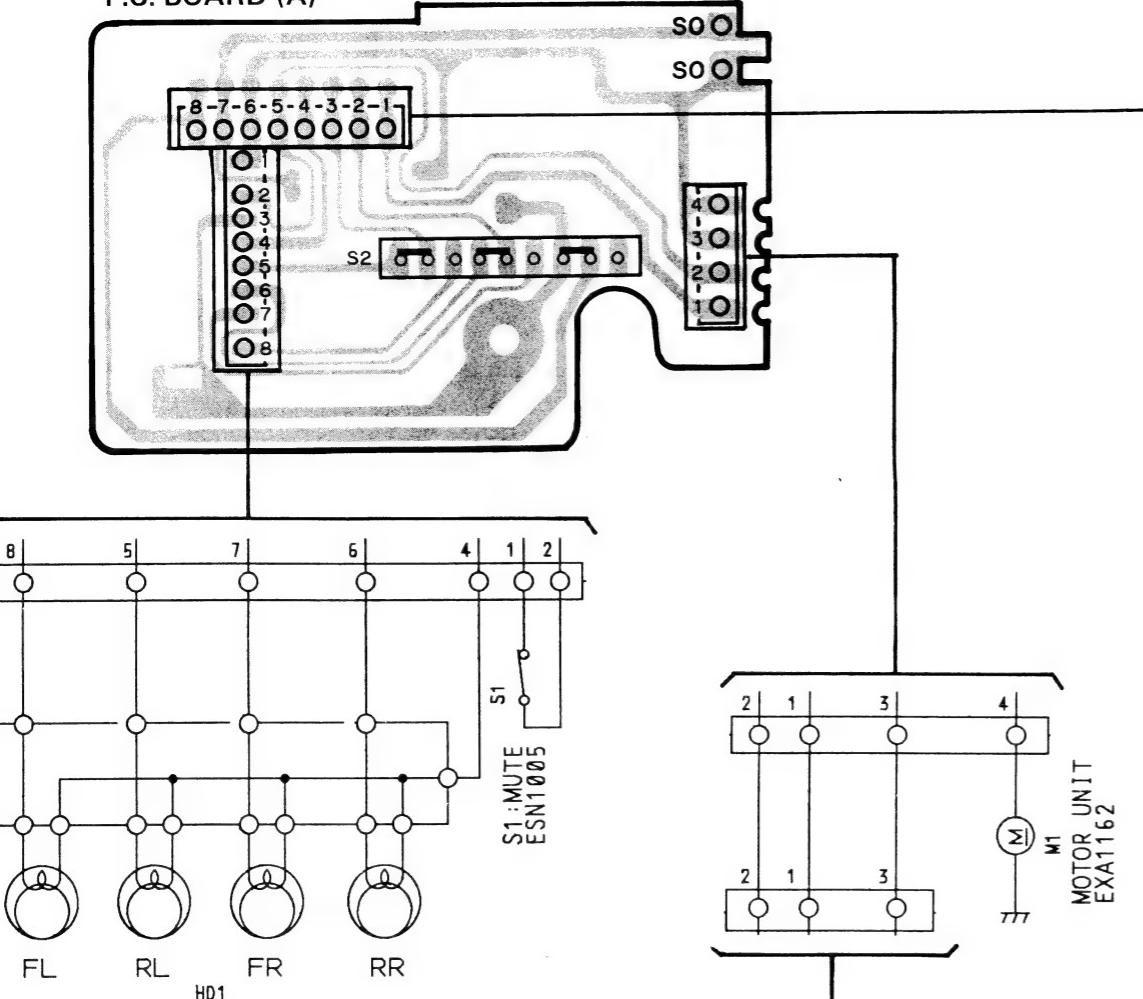


P . C . BOARD (B)

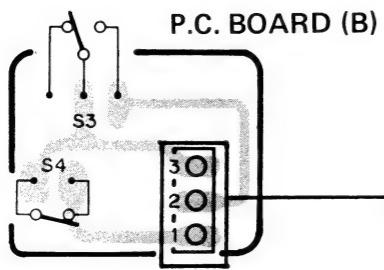
PE: 315Hz, 0dB(160nwb/m)

## 19. CONNECTION DIAGRAM (KE-1700B)

P.C. BOARD (A)

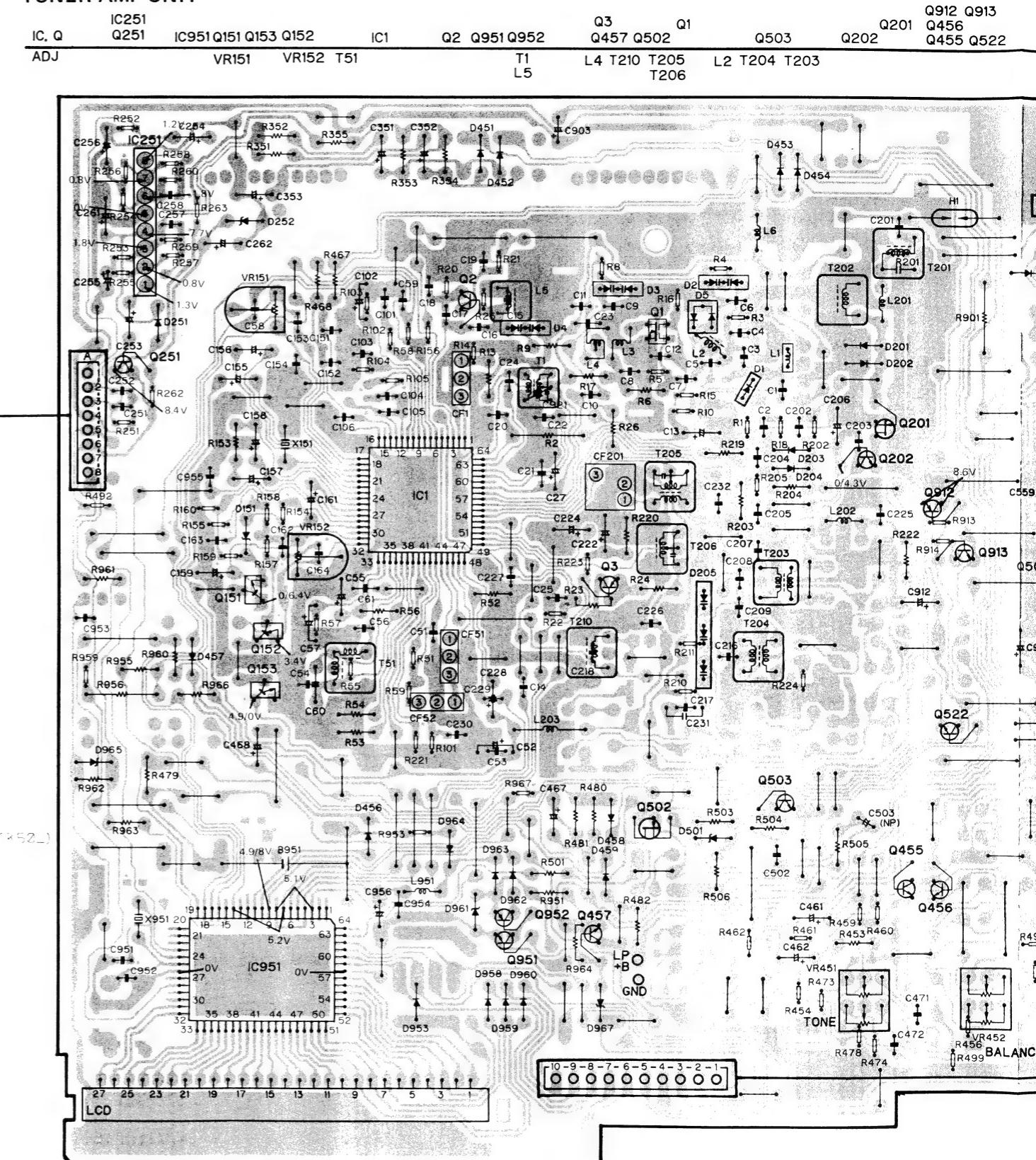


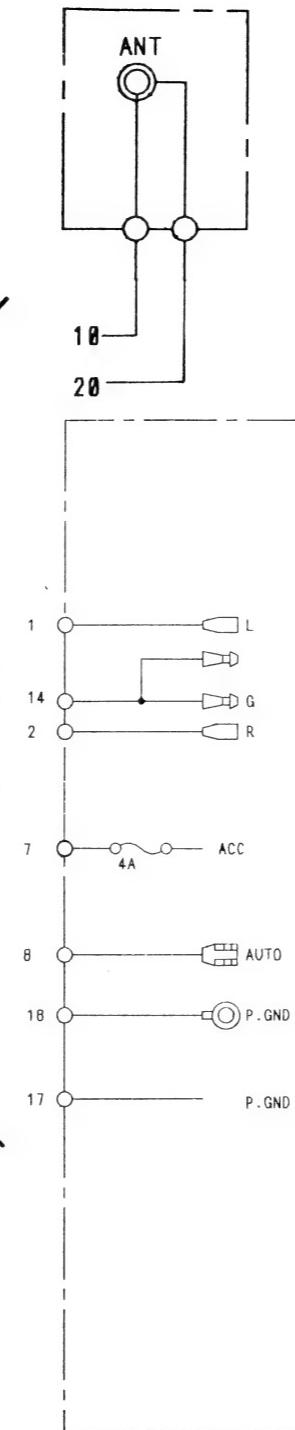
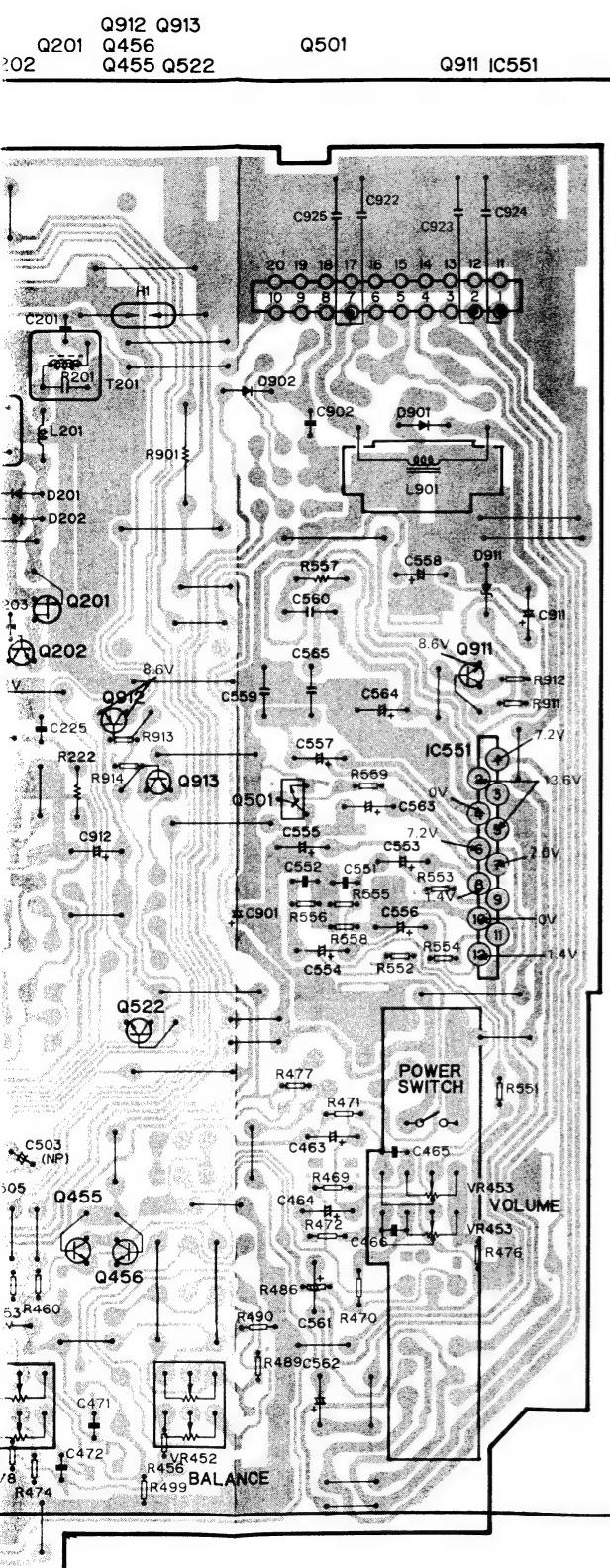
HEAD UNIT: EXA1163



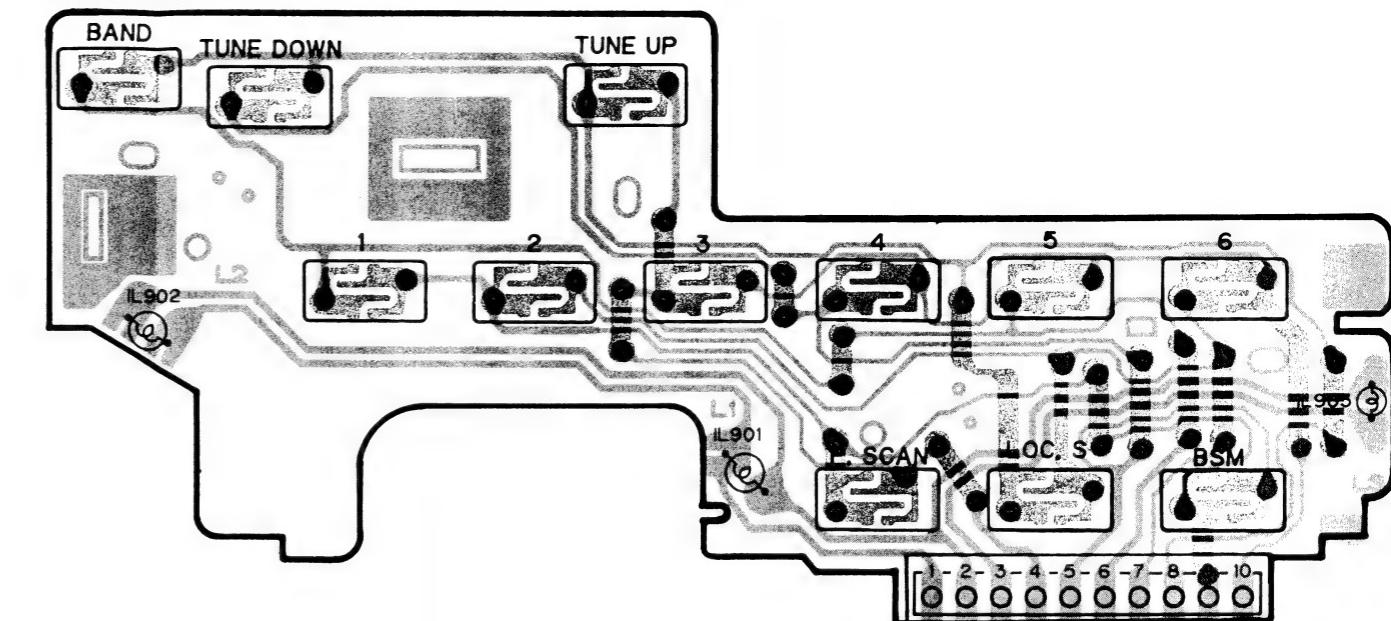
There is a C921 unit fitted with a ceramic capacitor instead of a chip capacitor. Both units are interchangeable with each other.

TUNER AMP UNIT





## KEYBOARD UNIT



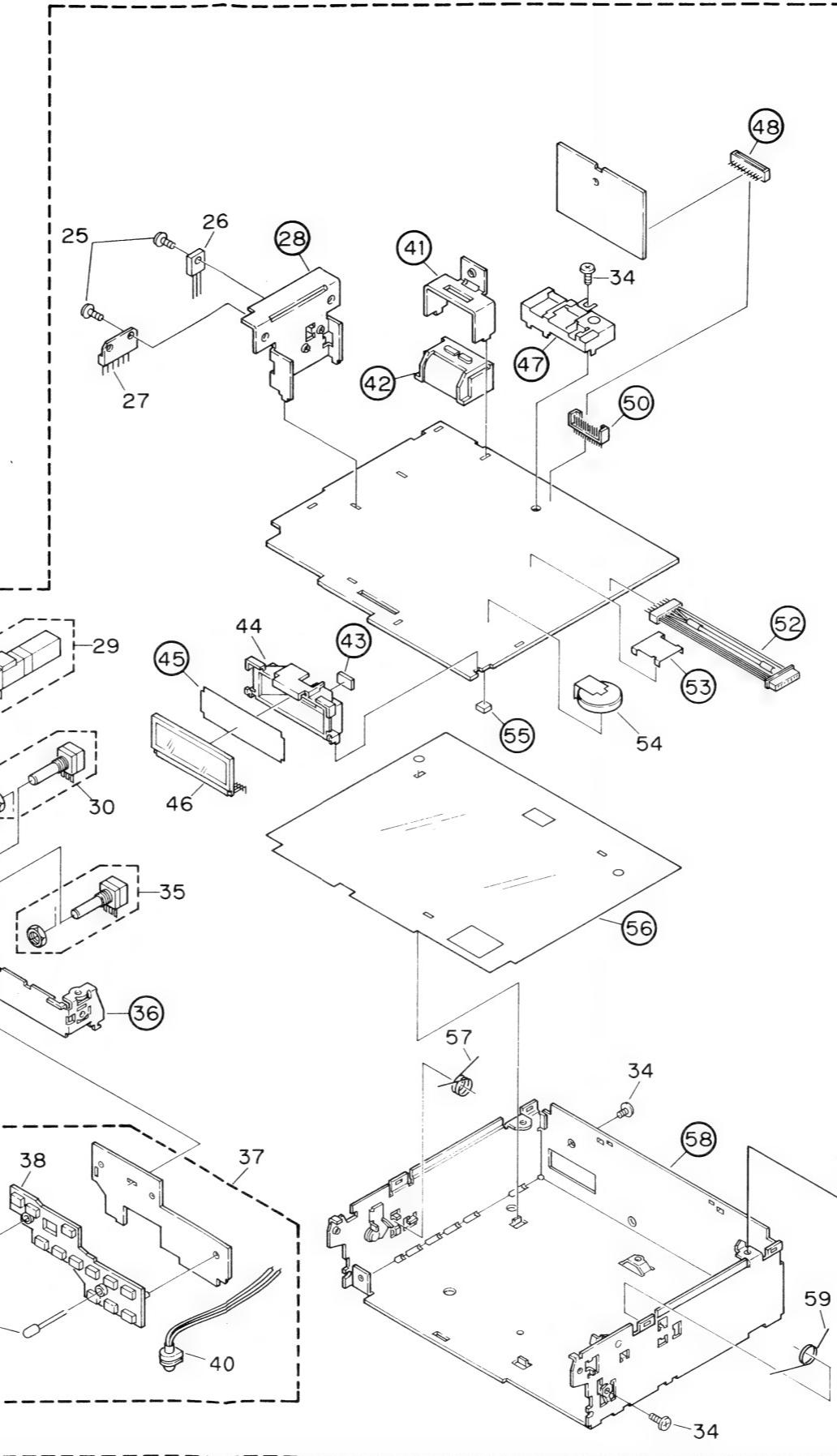
## TUNER AMP UNIT: IC1

1	2	3	4	5	6	7	8	9	10
2.1V	0V				5.2V		2.9V		
11	12	13	14	15	16	17	18	19	20
4.8V	4.8V	4.8V	2.8V	0V	2.3V	2.3V	4.7V		3.5V
21	22	23	24	25	26	27	28	29	30
3.5V	3.5V	3.8V	3.5V	3.5V	4.8V		0/4.1V	0/3.5V	0V
31	32	33	34	35	36	37	38	39	40
0/6.4V	3.4V								
41	42	43	44	45	46	47	48	49	50
1.3V			2.4/0V		3.3/0V	4/5.2V	3.4/3.8V	8.7V	
51	52	53	54	55	56	57	58	59	60
0.2V	0/6.9V	4.9/0V	8.7V	0/2.2V	0/4.3V		3.4/0V	8.6/0V	8.6/0V
61	62	63	64						
8.6/0V	8.6/0V								

FM/MW

Fig. 20

## **20. EXPLODED VIEW**



*NOTE:*

- *Parts whi*
- *Parts ma*
- *longer th.*

- Parts List

Mark No.

1  
2

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Fig. 21

## NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- Parts marked by "◎" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

NSP:Non Spare Part

## ● Parts List (KE-2700SDK/WG)

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Cord Assy	CDE3289	36	Holder Unit	
2	Screw	BSZ30P060FMC	◎ 37	Key Board Unit	CWM2370
3	Clamper		38	Switch	CNV2519
4	Screw	CBA1073	39	Lamp	CEL1013
5	Bush	CNV1009	40	Lamp	CEL1168
6	Screw	CBA1002	41	Holder	
7	Box	CNB1358	42	Connector	
8	....		43	Spacer	
9	Shaft	CLP1064	44	Holder	CNV2521
10	Button(QR EJECT)	CAC2548	45	Plate	
11	Button(BAND/TUNE)	CAC2544	46	LCD	CAW1097
12	Spacer		47	Case	
13	Lens	CNV2518	48	Connector	
14	Button(1-6)	CAC2670	49	....	
15	Grille Unit	CXA3760	50	Plug	
16	Spring	CBH1397	51	....	
17	Door	CAT1307	52	Connector	
18	Knob(FADER)	CAA1233	53	Shield	
19	Knob(VOLUME)	CAA1234	54	Battery	CEX1014
20	Knob(BASS/TREBLE)	CAA1235	55	Cushion	
21	Screw	CBA1165	56	Insulator	
22	Handle	CNC3262	57	Spring	CBH1374
23	Cover	CNV2520	58	Chassis Unit	
24	Button	CAC2671	59	Spring	CBH1366
25	Screw	BSZ30P080FMC	◎ 60	Tuner Amp Assy	CWM2463
26	Transistor	2SD1684	61	Case	
27	IC	TA7281P	◎ 62	Cassette Mechanism	EXK1710
28	Heat Sink		Assy		
29	Volume(VOLUME)	CCS1163	63	Button(EJECT)	CAC2545
30	Volume(BASS)	CCS1164	64	Button(REW)	CAC2547
31	Spring	CBH1347	65	Button(FF)	CAC2546
32	Lever Unit		66	Bracket	
33	Spring	CBH-846	67	Screw	BMZ26P040FMC
34	Screw	BSZ30P055FZK	68	Bracket	
35	Volume(TREBLE)	CCS1164	69	Clamper	CEF-007

Mark No.	Description	KE-2700SDK /WG Part No.	KE-2730B /EW Part No.	KE-2700B /IT Part No.	KE-1700SDK /WG Part No.	KE-1730B /EW Part No.	KE-1700B /IT Part No.
1	Cord Assy	CDE3289	CDE2975	CDE2975	CDE3290	CDE2978	CDE2978
15	Grille Unit	CXA3760	CXA3758	CXA3759	CXA3766	CXA3764	CXA3765
18	Knob(FADER)	CAA1233	CAA1233	CAA1233	.....	.....	.....
29	Volume(VOLUME)	CCS1163	CCS1163	CCS1163	CCS1170	CCS1170	CCS1170
30	Volume(BASS)	CCS1164	CCS1164	CCS1164	CCS1165	CCS1165	CCS1165
35	Volume(TREBLE)	CCS1164	CCS1164	CCS1164	CCS1166	CCS1166	CCS1166
◎ 37	Key Board Unit	CWM2370	CWM2370	CWM2480	CWM2370	CWM2370	CWM2480
39	Lamp	CEL1013	CEL1013	CEL-147	CEL1013	CEL1013	CEL-147
40	Lamp	CEL1168	CEL1168	CEL1167	CEL1168	CEL1168	CEL1167
48	Connector	NSP(A)	.....	.....	NSP(A)	.....	.....
50	Plug	NSP(A)	.....	.....	NSP(A)	.....	.....
54	Battery	CEX1014	CEX1014	CEX1014	CEX1012	CEX1012	CEX1012
58	Chassis Unit	NSP(A)	NSP(B)	NSP(B)	NSP(C)	NSP(B)	NSP(B)
◎ 60	Tuner Amp Assy	CWM2463	CWM2475	CWM2460	CWM2484	CWM2478	CWM2481
61	Case	NSP(A)	NSP(B)	NSP(A)	NSP(A)	NSP(B)	NSP(A)

## 21. PACKING METHOD

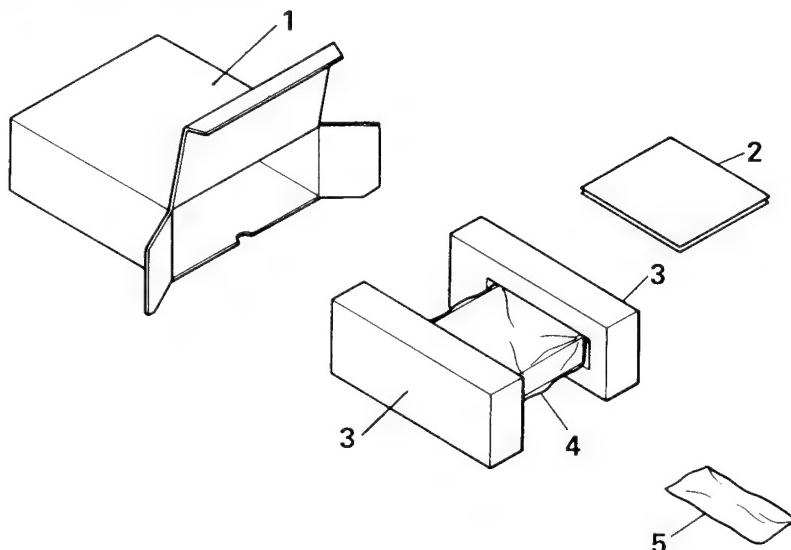


Fig. 22

### ● Parts List

Mark No.	Description	KE-2700SDK /WG	KE-2730B /EW	KE-2700B /IT	KE-1700SDK /WG	KE-1730B /EW	KE-1700B /IT
		Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
1	Carton	CHG1857	CHG1856	CHG1858	CHG1861	CHG1860	CHG1862
* 2-1	Owner's Manual	CRD1400	CRD1398	CRD1399	CRD1400	CRD1398	CRD1399
2-2	Card		.....	.....		.....	.....
2-3	Caution Card		.....	.....		.....	.....
2-4	Passport		.....	.....		.....	.....
2-5	Caution Card		.....	.....		.....	.....
3	Styrofoam	CHP1355	CHP1355	CHP1355	CHP1355	CHP1355	CHP1355
4	Polyethylene Bag	CEG-162	CEG-162	CEG-162	CEG-162	CEG-162	CEG-162
* 5	Accessory Assy	CEA1584	CEA1584	CEA1584	CEA1584	CEA1584	CEA1584

### \* 2-1 Owner's Manual

* 5 Accessory Assy CEA1584		
Mark No.	Description	Part No.
5-1	Screw (×1)	CBA-102
5-2	Screw (×1)	CBA1002
5-3	Strap	CNF-111
5-4	Bush	CNV1009
5-5	Nut (×2)	NF50FMC
5-6	Shaft	CLP1064

Part No.	Model	Language
CRD1400	KE-2700SDK/WG KE-1700SDK/WG	German, French
CRD1398	KE-2730B/EW KE-1730B/EW	English, French, German, Norwegian, Dutch
CRD1399	KE-2700B/IT KE-1700B/IT	English, Spanish, Italian, Finnish, Swedish, Portuguese

## 22. CASSETTE MECHANISM EXPLODED VIEW

### ● Parts List

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Reel Unit	EXA1167	46	Switch	ESH1004
2	Gear Unit	EXA1159	47	Switch	CSN1005
3	Washer	CBF1037	48	Screw	CBA1025
4	Gear	ENV1230	49	Gear	ENV1229
5	Gear	ENV1203	50	Washer	CBF1038
6	Gear	ENV1204	51	Belt	ENT1020
7	Gear	ENV1212	52	Gear	ENV1209
8	Gear	ENV1211	53	Arm Unit	EXA1155
9	Sub Chassis Unit		54	Washer	YE30FUC
10	Arm	ENV1210	55	Spring	EBH1310
11	Screw	BMZ20P025FMC	56	Flywheel Unit	EXA1161
12	Spring	EBH1304	57	Belt	ENT1018
13	Screw	JFZ20P040FNI	58	Arm	ENV1206
14	Collar	ELA1220	59	Spring	EBH1317
15	Shaft		60	Gear	ENV1205
16	Lever	ENC1202	61	Chassis Unit	
17	Washer	EBF1015	62	Screw	JFZ20P025FNI
18	Gear	ENV1268	63	.....	
19	Spring	EBH1313	64	Pulley	ENV1207
20	Spring	EBH1314	65	.....	
21	Lever	ENC1208	66	.....	
22	Spring	EBH1307	67	Plug	
23	Tube		68	F. C. Board	
24	Spring	EBH1306	69	Switch	ESH1003
25	.....		70	Washer	WH23FMC
26	Lever	ENC1209	71	Screw	BSZ23P040FMC
27	Spring	EBH1316	72	Screw	CBA1015
28	Arm	ENC1222	73	Head Unit	EXA1163
29	Spring	EBH1308	74	P. C. Board	ENP1042
30	Washer	YE15FUC	75	Switch	ESN1005
31	Arm	ENC1221	76	Washer	YE20FUC
32	Spring	EBH1305	77	Pinch Roller Unit	EXA1154
33	Frame	ENC1204	78	.....	
34	Arm	ENC1215	79	.....	
35	Shaft	ELA1251	80	Arm	ENC1213
36	Holder	ENC1205	81	Screw	CBA1038
37	Spring	EBH1344	82	Arm	ENV1227
38	Lever	ENV1222	83	Spring	EBH1312
39	Head Base Unit	EXA1152	84	Arm	ENC1212
40	Tube		85	Spring	EBH1309
41	Spring	EBH1315	86	Lever	ENC1206
42	Motor Unit	EXA1162	87	Spring	EBH1309
43	Screw	PMS26P025FUC	88	Lever	ENC1207
44	Screw	CBA1054	89	.....	
45	P. C. Board		90	Pinch Roller Unit	EXA1153

## ● Cassette Mechanism Assy

Mark No.	Description	Part No.
91	.....	
92	Arm	ENC1220
93	Spring	EBH1311
94	Collar	ELA1229
95	Screw	JGZ17P035FN1
96	Collar	ELA1252

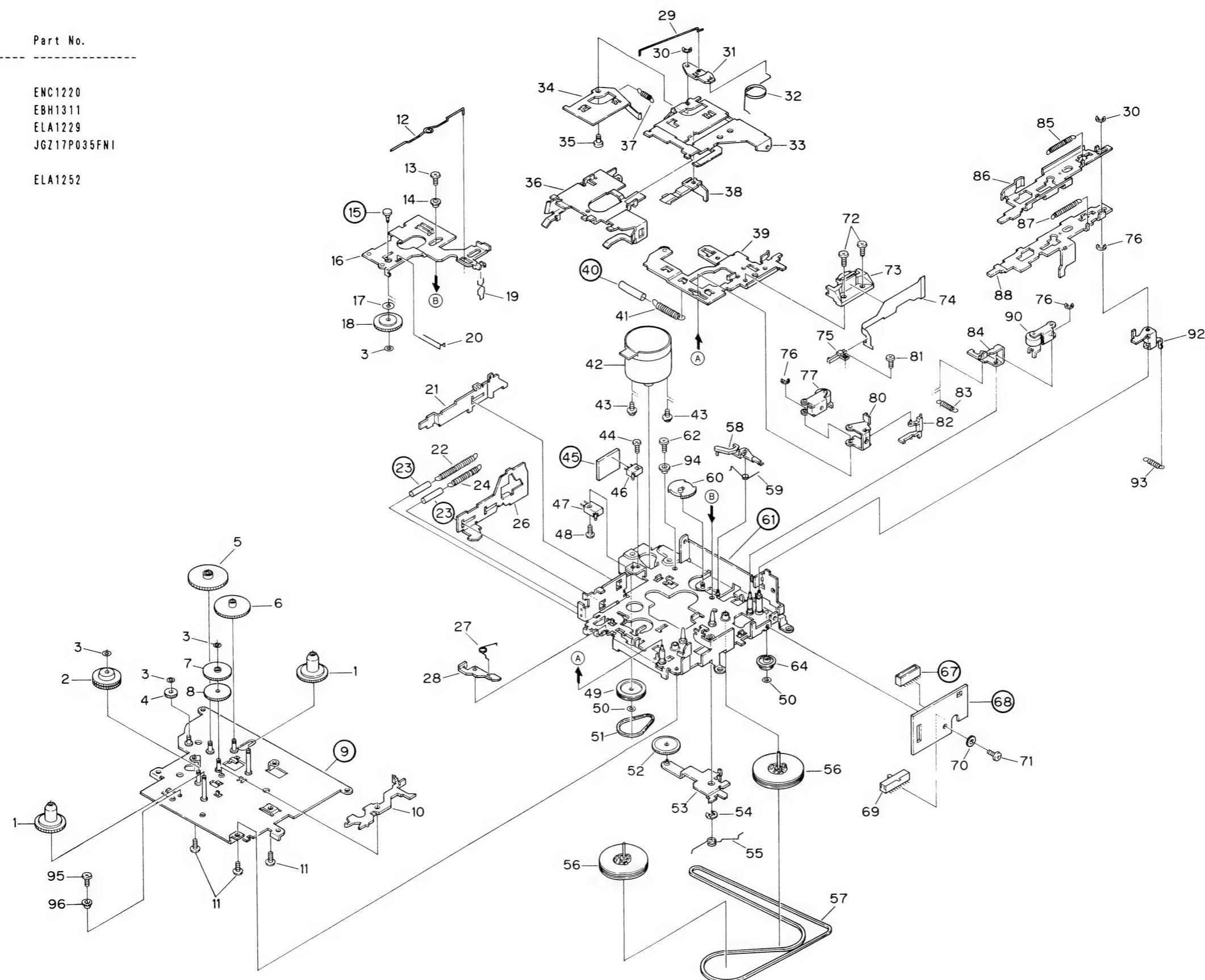


Fig. 23

## 23. ELECTRICAL PARTS LIST

## NOTE:

- Parts whose part numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

## Chip Resistor

RS1/18S□□□J, RS1/10S□□□J

## Chip Capacitor (except for CQS....)

CKS...., CCS...., CSZS....

Unit Number :  
 Unit Name : Keyboard Unit(KE-2700SDK, 1700SDK/WG, KE-2730B, 1730B/EW)

Mark ===== Circuit Symbol & No. === Part Name Part No.

Mark	Circuit Symbol & No.	Part Name	Part No.	Mark	Circuit Symbol & No.	Part Name	Part No.
T	201	Coil	CTB1056	R	160		RS1/10S103J
T	202	Coil	CTB1008	R	203		RD1/4PS513JL
T	203 204	Coil	CTB1058	R	205		RS1/10S510J
T	205	Coil	CTE1041	R	211		RS1/10S103J
T	206	Coil	CTE1042	R	220		RD1/4PS752JL

Mark ===== Circuit Symbol & No. === Part Name Part No.

IC 951

X	151	Ceramic Resonator	CSS1066	R	255 256		RS1/10S151J
---	-----	-------------------	---------	---	---------	--	-------------

Mark ===== Circuit Symbol & No. === Part Name Part No.

Q 1

X	702	Ceramic Resonator	CSS1022	R	257 258		RS1/10S133J
---	-----	-------------------	---------	---	---------	--	-------------

Mark ===== Circuit Symbol & No. === Part Name Part No.

Q 2

X	951	Crystal Resonator	CSS1011	R	259 260		RS1/10S334J
---	-----	-------------------	---------	---	---------	--	-------------

Mark ===== Circuit Symbol & No. === Part Name Part No.

IL 901 902 Lamp 14V 40mA CEL1013

T	210	Coil	CTB1061	R	221		RS1/10S104J
---	-----	------	---------	---	-----	--	-------------

Mark ===== Circuit Symbol & No. === Part Name Part No.

IL 903 Lamp 14V 40mA CEL1168

CF 1	Ceramic Filter	CTF-182	R	222		RD1/4PS220JL
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Mark ===== Circuit Symbol & No. === Part Name Part No.

Q 3 704

CF 51 52	Ceramic Filter	CTF1130	R	224		RS1/10S0R0J
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Mark ===== Circuit Symbol & No. === Part Name Part No.

Q 151

CF 201	Filter	CTF1085	R	251 252		RS1/10S513J
--------	--------	---------	---	---------	--	-------------

Mark ===== Circuit Symbol & No. === Part Name Part No.

Q 152

H 1	Surge Protector	DSP-201M	R	253 254 703 704 705 717 739		RS1/10S104J
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Unit Number :

Unit Name : Keyboard Unit(KE-2700SDK, 1700SDK/WG, KE-2730B, 1730B/EW)

Mark ===== Circuit Symbol & No. === Part Name Part No.

Q 153 501

X	151	Ceramic Resonator	CSS1066	R	255 256		RS1/10S151J
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Mark ===== Circuit Symbol & No. === Part Name Part No.

Q 201

X	702	Ceramic Resonator	CSS1022	R	257 258		RS1/10S133J
---	-----	-------------------	---------	---	---------	--	-------------

Mark ===== Circuit Symbol & No. === Part Name Part No.

Q 202 451 452 503 522 701 702 705

X	951	Crystal Resonator	CSS1011	R	259 260		RS1/10S334J
---	-----	-------------------	---------	---	---------	--	-------------

Mark ===== Circuit Symbol & No. === Part Name Part No.

Q 251

VR 151	Semi-fixed 150kΩ (B)	VRMB6VS154	R	262		RS1/10S392J
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Mark ===== Circuit Symbol & No. === Part Name Part No.

Q 252

VR 152	Semi-fixed 33kΩ (B)	VRMB6VS333	R	263 492		RS1/8S0R0J
--------	---------------------	------------	---	---------	--	------------

Unit Number :

Unit Name : Keyboard Unit(KE-2700B, 1700B/IT)

Mark ===== Circuit Symbol & No. === Part Name Part No.

Q 253

VR 451 452	Volume 20kΩ (U)	CCS1164	R	351 352 355 503 506		RD1/4PS102JL
------------	-----------------	---------	---	---------------------	--	--------------

Mark ===== Circuit Symbol & No. === Part Name Part No.

Q 254

VR 453	Volume/Switch 200Ω, 50kΩ (G), 20kΩ (B)	CCS1163	R	452		RS1/10S473J
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Mark ===== Circuit Symbol & No. === Part Name Part No.

Q 255

VR 701	Semi-fixed 220Ω (B)	VRMB6VS221	R	453 964		RD1/4PS331JL
--------	---------------------	------------	---	---------	--	--------------

Mark ===== Circuit Symbol & No. === Part Name Part No.

Q 256

B 951	Battery	CEX1014	R	454		RS1/10S331J
-------	---------	---------	---	-----	--	-------------

Mark ===== Circuit Symbol & No. === Part Name Part No.

Q 257

LCD	CAC1097	R	455			RD1/4PS182JL
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Unit Number :

Unit Name : P.C. Board(A)

Mark ===== Circuit Symbol & No. === Part Name Part No.

Q 707

R 1 3 5 706 736							RS1/10S223J
-----------------	--	--	--	--	--	--	-------------

Mark ===== Circuit Symbol & No. === Part Name Part No.

Q 911

R 2							RD1/4PS151JL
-----	--	--	--	--	--	--	--------------

Mark ===== Circuit Symbol & No. === Part Name Part No.

Q 912

R 4 459 460							RS1/10S333J
-------------	--	--	--	--	--	--	-------------

Mark ===== Circuit Symbol & No. === Part Name Part No.

Q 913

R 6 479 962							RD1/4PS473JL
-------------	--	--	--	--	--	--	--------------

Mark ===== Circuit Symbol & No. === Part Name Part No.

Q 951

R 8							RS1/10S563J
-----	--	--	--	--	--	--	-------------

Unit Number :

Unit Name : P.C. Board(B)

Mark ===== Circuit Symbol & No. === Part Name Part No.

Q 952

R 13							RD1/4PS271JL
------	--	--	--	--	--	--	--------------

Mark ===== Circuit Symbol & No. === Part Name Part No.

D 1

R 14							RD1/10S561J
------	--	--	--	--	--	--	-------------

Mark ===== Circuit Symbol & No. === Part Name Part No.

D 2 3 4

R 15							RS1/10S683J
------	--	--	--	--	--	--	-------------

Mark ===== Circuit Symbol & No. === Part Name Part No.

D 5

R 16							RD1/10S474J
------	--	--	--	--	--	--	-------------

Mark ===== Circuit Symbol & No. === Part Name Part No.

D 151

R 17							RD1/4PS271JL
------	--	--	--	--	--	--	--------------

Mark ===== Circuit Symbol & No. === Part Name Part No.

S 3 Switch(TAPE/TUN) ESH1004

R 18 465 466							RS1/10S331J
--------------	--	--	--	--	--	--	-------------

Mark ===== Circuit Symbol & No. === Part Name Part No.

S 4 Switch(MUTE) CSN1005

R 20							RS1/10S182J
------	--	--	--	--	--	--	-------------

Mark ===== Circuit Symbol & No. === Part Name Part No.

D 201 202 203 204 251

R 21							RS1/10S101J
------	--	--	--	--	--	--	-------------

Mark ===== Circuit Symbol & No. === Part Name Part No.

D 252 911

R 22							RS1/10S223J
------	--	--	--	--	--	--	-------------

Mark ===== Circuit Symbol & No. === Part Name Part No.

D 451 452 453 454 455 456 458 459 701 702

R 23							RD1/4PS472JL
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Mark ===== Circuit Symbol & No. === Part Name Part No.

D 501

R 24							RS1/10S102J
------	--	--	--	--	--	--	-------------

Miscellaneous Parts List

## CAPACITORS

Mark	Circuit Symbol & No.	Part Name	Mark	Circuit Symbol & No.	Part Name	Part No.
C 1 3 17 56 203	CCSOCH220J50	C 503	4.7 $\mu$ F/16V			CCH1005
C 2 53 58 205 226	CKSQYF473Z50	C 551 552				CKSQYB102K50
C 4 25 469 470	CCSQCH330J50	C 553 554				CEA010M50L2
C 5 207 209	CCSQTH090D50	C 559 560 565				COEA224J63
C 6	CCSQTH070D50	C 561 562				CEA102M10L2
C 7 202 706 717	CKSQYB222K50	C 564				CEA471M16L2
C 8 22	CKSQYB223K50	C 702 703				CKSQYB391K50
C 9	CCSQTH150J50	C 708				CCSQSL271J50
C 10	CCSQSL271J50	C 712				CEA010M50LS2
C 11	CKSQYB103K50	C 715 716				COMA102J50
C 12	CCSQCH470J50	C 718				CQMA683J50
C 13 224	CEA3R3M50LS	C 719				CEAR3M50LS2
C 14	CKSQYB102K50	C 720 721				COMA473J50
C 15	CCSQCH080D50	C 723				CEA471M16L2
C 16	CCSQCH100D50	C 901				CEA222M16L2
C 18	CCSQCH120J50	C 903				CEA331M16L2
C 19 101 164 201 502	CKSQYB103K50	C 911				CEA331M6R3L2
C 20	CKSQYF104Z50	C 921				CCSQSL101J50
C 21 23	CKSYB393K50	C 922				CKDYB391K50
C 24	CCSQCH470J50	C 923 924 925				CKPYF223Z25L
C 27 52 912	CEA101M10LS	C 926 927				CCSQCH100D50
C 51 54 59 105 154 204 216 227	CKSQYB223K50	C 951 952				CKSQYF473Z50
C 55 155 156 157	CEA010M50LS2	C 955				CEA331M6R3L2
C 57	CEAR47M50LS2	C 956				CEA220M16LS
C 60	CCDLH910J50	C 958				
C 61 954	CKSYB473K50					
C 102 206 563 707 713 724	CEA470M16LS					
C 103	CKSQYB182K50					
C 104	CKSQYB682K50					
C 106	CKSQYB102K50					
C 151 152	CKSQYB183J50					
C 153	CKSQYB332K50					
C 158	CEAR22M50LS2					
C 159	CEA0R1M50LS2					
C 161 451 452 467 704 714	CEA100M16LS2					
C 162 163	CKSQYB152K50					
C 165	CKSQYB102K50					
C 208	CCSQCH010C50					
C 217	CCSQRH101J50					
C 218	CCSOUJ180J50					
C 222 455 456	CEAR47M50LS2					
C 225 232 711 722	CKSQYB473K25					
C 228 705	CEA220M16LS					
C 229 230 701 709	CKSQYB223K50					
C 231	COPA431G2A					
C 251 252	CKSQYB102K50					
C 253 254 957	CEA2R2M50LS2					
C 255	CEA470M10LS					
C 256 262 557 558	CEA470M10L2					
C 257 258	CKSQYB103K50					
C 261 555 556	CEA221M10L2					
C 351 352	CEA100M16L2					
C 353	CEA4R7M35L2					
C 453 454	CEA0R1M50LS2					
C 457 458	CKSQYB153K50					
C 459 460	CKSYB393K25					
C 461 462	CEALNP2R2M35					
C 463 464	CEAR22M50L2					
C 465 466	CKSQYB152K50					
C 468	CEA010M50LS2					
RESISTORS						
Circuit Symbol & No.	KE-2700SDK/WG	KE-2730B/EW	KE-2700B/IT	Part No.	Part No.	Part No.
R206, 207, 215	.....	RD1/4PS474JL	.....			
R208, 209, 213, 218	.....	RD1/4PS561JL	.....			
R212	.....	RD1/4PS104JL	.....			
R214	.....	RS1/10S821J	.....			
R216, 217	.....	RS1/10S474J	.....			
R224	RS1/10S0R0J	.....	RS1/10S0R0J			
R463, 464	RS1/8S132J	RS1/8S122J	RS1/8S122J			
R476	RS1/10S2R2J	RS1/10S0R0J	RS1/10S0R0J			
R481	RD1/4PS102JL	RD1/4PS222JL	RD1/4PS222JL			
R485	RD1/4PS102JL	.....	RD1/4PS222JL			

Circuit Symbol & No.	KE-2700SDK/WG	KE-2730B/EW	KE-2700B/IT
Circuit Symbol & No.	Part No.	Part No.	Part No.
R501	RD1/4PS472JL	RD1/4PS222JL	RD1/4PS472JL
R502	.....	RD1/4PS222JL	.....
R507	.....	RD1/4PS331JL	.....
R701, 713, 719, 729	RS1/10S473J	.....	.....
R702	RS1/10S472J	.....	.....
R703, 704, 705, 717	RS1/10S104J	.....	.....
R706, 736	RS1/10S223J	.....	.....
R707	RS1/10S181J	.....	.....
R708, 710, 711, 734	RS1/10S102J	.....	.....
R709, 732	RD1/4PS223JL	.....	.....
R712	RS1/10S561J	.....	.....
R714, 716, 728	RS1/10S103J	.....	.....
R715, 955	RD1/4PS472JL	.....	.....
R718	RS1/10S182J	.....	.....
R720	RS1/10S222J	.....	.....
R721	RS1/10S0R0J	.....	.....
R722	RS1/10S682J	.....	.....
R723	RD1/4PS152JL	.....	.....
R724	RD1/4PS153JL	.....	.....
R725, 727	RS1/10S0R0J	.....	.....
R726	RS1/10S564J	.....	.....
R730	RS1/10S823J	.....	.....
R731	RS1/10S123J	.....	.....
R735	RS1/8S223J	.....	.....
R737	RS1/8S473J	.....	.....
R738	RS1/8S103J	.....	.....
R739	RS1/10S104J	.....	.....
R955	.....	RD1/4PS473JL	RD1/4PS473JL
R967	RS1/10S103J	RS1/10S0R0J	RS1/10S0R0J

Unit Number :  
Unit Name : Tuner Amp Unit(KE-1700SDK/WG)

## MISCELLANEOUS

Mark =====	Circuit Symbol & No.	==== Part Name	Part No.
IC 1			PAC001A
IC 251			LA3161P
IC 551			TA7281P
IC 701			LA2220
IC 702			TA75558S
IC 951			PD4275
Q 1		Chip Transistor	3SK195
Q 2			2SC2999
Q 3 704			2SA1048
Q 151		Chip Transistor	2SC2712
Q 152		Chip Transistor	DTA124EK
Q 153 501		Chip Transistor	DTC114EK
Q 201			2SK435
Q 202 503 522 701 702 705			2SC2458
Q 251			2SD1992A
Q 455 456			DTC343TS
Q 457 708			DTC124ES
Q 502			2SK330
Q 703			2SK30A
Q 706			2SC2634NC
Q 707			2SC2712
Q 911			2SD1684
Q 912			2SA1150
Q 913			DTC143ES
Q 951			DTC114ES

## CAPACITORS

Circuit Symbol & No.	KE-2700SDK/WG	KE-2730B/EW	KE-2700B/IT
Circuit Symbol & No.	Part No.	Part No.	Part No.
C165	CKSQYB102K50	.....	.....
C210, 211, 220, 221	.....	CKSQYF473Z50	.....
C212	.....	CCSORH101J50	.....
C213	.....	CCSOCH180J50	.....
C214	.....	COPA331G2A	.....
C215	.....	CCSORH820J50	.....
C217	CCSORH101J50	CKSQYB223K50	CCSORH101J50
C219	.....	CCSOSH390J50	.....
C231	COPA431G2A	.....	COPA431G2A
C501	.....	CEAR47M50LS2	.....
C701, 709	CKSQYB223K50	.....	.....
C702, 703	CKSQYB391K50	.....	.....
C704, 714	CEA100M16L52	.....	.....
C705	CEA220M16LS	.....	.....
C706, 717	CKSQYB222K50	.....	.....
C707, 713, 724	CEA47M16LS	.....	.....
C708	CCSOSL271J50	.....	.....
C710	CKSQYF473Z50	.....	.....
C711, 722	CKSQYB473K25	.....	.....
C712	CEA010M50LS2	.....	.....
C715, 716	COMA102J50	.....	.....
C718	COMA683J50	.....	.....
C719	CEAR33M50LS2	.....	.....
C720, 721	COMA473J50	.....	.....
C723	CEA471M16L2	.....	.....
C903	CEA331M16L2	CEA102M16L2	CEA102M16L2
C921	CCSOSL101J50	.....	CCSOSL101J50
C922	CKDYB391K50	.....	CKDYB391K50
C923, 924, 925	CKPYF223Z25L	.....	CKPYF223Z25L
C926, 927	CKPYF223Z25L	.....	CKPYF223Z25L
C953	.....	CKSQYF473Z50	CKSQYF473Z50
C957	CEA2R2M50LS2	.....	.....
C958	CEA220M16LS	.....	.....

Q 952			DTA124ES
D 1		Chip Diode	1SV128A-BB
D 2 3 4		Variable Capacitance Diode	SVC203-AB
D 5		Chip Diode	MA157-MR
D 151			HZS4R3EB3
D 201 202 203 204 251			ISS133
D 205		Variable Capacitance Diode	KV1235Z3
D 252 911			RD9R1JSB2
D 451 452 453 454 455 456 458 459 701 702			ISS133
D 501			RD3RDESB2
D 901 902			ERA15-02Y1
D 951 958 959 960 962 963 966 969			ISS133
D 961			RD5R6JSB2
D 964			MA700
D 965			RD5R1JSB2
D 967			RDBR2JSB1
L 1		Inductor 0.12 μH	CTF1065
L 2		Coil	CTC1022
L 3		Coil	CTC1020
L 4		Coil	CTC1056
L 5		OSC Coil	CTC1024
L 6		Inductor 15 μH	LAU150K
L 201		Ferrri-Inductor 4.7 μH	LAU4R7K
L 202		Ferrri-Inductor 33 μH	LAU330K
L 203		Ferrri-Inductor 4.7 μH	CTF-161
L 701		Micro-Inductor 0.68 μH	LAUR68M
L 901		Choke Coil	CTH1084
L 951		Ferrri-Inductor 100 μH	LAU101K
T 1		Coil	CTC1064
T 51		Coil	CTC1060

Mark =====	Circuit Symbol & No.	==== Part Name	Part No.	Mark =====	Circuit Symbol & No.	==== Part Name	Part No.
T 201	Coil	CTB1056	R 154				RS1/10S332J
T 202	Coil	CTB1008	R 155 718				RS1/10S182J
T 203 204	Coil	CTB1058	R 156				RS1/10S684J
T 205	Coil	CTE1041	R 158				RS1/10S682J
T 206	Coil	CTE1042	R 159				RS1/10S333J
T 210	Coil	CTB1061	R 160				RS1/10S103J
CF 1	Ceramic Filter	CTF-182	R 203				RD1/4PS513JL
CF 51 52	Ceramic Filter	CTF1130	R 205				RS1/10S510J
CF 201	Filter	CTF1085	R 211				RS1/10S103J
H 1	Surge Protector	DSP-201M	R 220				RD1/4PS752JL
X 151	Ceramic Resonator	CSS1066	R 221				RS1/10S104J
X 702	Ceramic Resonator	CSS1022	R 222				RD1/4PS220JL
X 951	Crystal Resonator	CSS1011	R 224 456 461 462 473 474 478				RS1/10S0R0J
VR 151	Semi-fixed 150kΩ (B)	VRMB6VS154	R 251 252				RS1/10S513J
VR 152	Semi-fixed 33kΩ (B)	VRMB6VS333	R 253 254 703 704 705 717 739				RS1/10S104J
VR 451	Volume 20kΩ (A)	CCS1166	R 255 256				RS1/10S151J
VR 452	Volume 50kΩ (G)	CCS1165	R 257 258				RS1/10S133J
VR 453	Volume/Switch 20kΩ (B)	CCS1170	R 259 260				RS1/10S334J
VR 701	Semi-fixed 220Ω (B)	VRMB6VS221	R 262				RS1/10S392J
B 951	Battery	CEX1014	R 263 490 492				RS1/8S0R0J
LCD		CAW1097	R 351 352				RD1/4PS332JL
			R 355 503 506				RD1/4PS102JL
RESISTORS			R 453				RD1/4PS272JL
			R 454				RS1/10S272J
Mark =====		Part No.	R 467 468				RD1/4PS562JL
R 1 3 5 706 736		RS1/10S223J	R 469 470				RS1/BS222J
R 2		RD1/4PS151JL	R 471				RS1/BS222J
R 4 459 460		RS1/10S333J	R 472				RS1/BS222J
R 6 479 962		RD1/4PS473JL	R 476				RS1/10S2R7J
R 8		RS1/10S563J	R 477				RS1/10S333J
R 9		RD1/4PS563JL	R 481 485				RD1/4PS102JL
R 10 157 201 202 714 716 728		RS1/10S103J	R 482				RD1/4PS392JL
R 13		RD1/4PS271JL	R 486 489 499 553 554 558 721				RS1/10S0R0J
R 14		RS1/10S561J	R 501 504 715 955 966				RD1/4PS472JL
R 15		RS1/10S683J	R 505 723				RD1/4PS152JL
R 16		RS1/10S474J	R 551 552				RS1/10S182J
R 17		RD1/4PS271JL	R 555 556				RS1/10S153J
R 18		RS1/10S331J	R 557				RD1/4PS010JL
R 20		RS1/10S182J	R 559				RS1/10S682J
R 21		RS1/10S101J	R 707				RS1/10S181J
R 22		RS1/10S223J	R 708 710 711 734				RS1/10S102J
R 23		RD1/4PS472JL	R 709 732				RD1/4PS223JL
R 24		RD1/4PS682JL	R 712				RS1/10S561J
R 25 223 702		RS1/10S472J	R 720				RS1/10S222J
R 26 204 219 963		RD1/4PS103JL	R 725 727				BS1/10S0R0J
R 51		RS1/10S331J	R 726				RS1/10S564J
R 52		RD1/4PS333JL	R 730				RS1/10S823J
R 53 480		RD1/4PS104JL	R 731				RS1/10S123J
R 54		RD1/4PS103JL	R 735				RS1/8S223J
R 55		RS1/10S682J	R 737				RS1/8S473J
R 56 353 354 724		RD1/4PS153JL	R 738				RS1/8S103J
R 57 210 701 713 719 729		RS1/10S473J	R 901				RD1/2PS3R3JL
R 58		RS1/10S513J	R 911				RS1/10S331J
R 59		RS1/10S0R0J	R 912				RS1/10S221J
R 101		RS1/10S133J	R 913 967				RS1/10S103J
R 102		RS1/10S682J	R 914 959				RS1/10S222J
R 103		RS1/10S183J	R 951				RD1/4PS471JL
R 104 722		RS1/10S682J	R 953				RS1/10S331J
R 105		RS1/10S752J	R 956				RD1/4PS473JL
R 153		RD1/4PS562JL	R 960				RD1/4PS222JL
			R 961				RD1/4PS333JL
			R 964				RD1/4PS331JL

## CAPACITORS

Mark	Circuit Symbol & No.					Part Name	Mark	Circuit Symbol & No.			Part Name	Part No.
C 1 3 17 56 203	CCSOCH220J50	C 553	554				C 559	560	565			CEA010M50L2
C 2 53 58 205 226 710 902	CKSQYF473Z50	C 561	562				C 564					CQEA224J63
C 4 25	CCSOCH330J50	C 702	703				C 708					CEA102M10L2
C 5 207 209	CCSQTH090D50	C 711	722				C 712					CEA471M16L2
C 6	CCSQTH070D50	C 715	716				C 718					CKSQYB391K50
C 7 202 706 717	CKSQYB222K50	C 719					C 720	721				CCSQSL271J50
C 8 22	CKSQYB223K50	C 723					C 723					CKSQYF473Z225
C 9	CCSQTH150J50	C 901					C 903					CQMA102J50
C 10	CCSOSL271J50	C 903					C 911					CQMA683J50
C 11	CKSQYB103K50	C 921					C 921					CEAR33M50LS2
C 12	CCSOCH470J50	C 922					C 922					CQMA473J50
C 13 224	CEA3R3M50LS	C 923	924	925			C 923					CEA471M16L2
C 14	CKSQYB102K50	C 951	952				C 951					CEA222M16L2
C 15	CCSQCH080D50	C 955					C 955					CEA331M16L2
C 16	CCSQCH100D50	C 956					C 956					CCSQSL101J50
C 18	CCSQCH120J50	C 958					C 958					CKDYB391K50
C 19 101 164 201 502	CKSQYB103K50						C 958					CKPYF223Z225
C 20	CKSQYF104Z50						C 958					CCSQCH100D50
C 21 23	CKSYB393K50											CKSQYF473Z50
C 24	CCSQCH470J50											CEA331MGR3L2
C 27 52 912	CEA101M10LS											CEA220M16LS
C 51 54 59 105 154 204 216 227	CKSQYB223K50											Tuner Amp Unit
C 55 155 156 157	CEA010M50LS2											MISCELLANEOUS
C 57	CEAR47M50LS2											
C 60	CCDLH910J50											
C 61 954	CKSYB473K50											
C 102 206 563 707 713 724	CEA470M16LS											
C 103	CKSQYB182K50											
C 104	CKSQYB682K50											
C 106	CKSQYB102K50											
C 151 152	CKSQYB183J50	IC701	LA2220				....					
C 153	CKSQYB332K50	IC702	TA7558S				....					
C 158	CEAR22M50LS2	0203, 204, 205, 206, 207	....				2SC2458					
C 159	CEA0R1M50LS2	0504	....				DTC143ES					
C 161 467	CEA100M16LS2	0505	....				DTC124ES					
C 162 163	CKSQYB152K50	0701, 702, 705	2SC2458				....					
C 165	CKSQYB102K50	0703	2SK3DA				....					
C 208	CCSQCH010C50	0704	2SA1048				....					
C 217	CCSORH101J50	0706	2SC2634NC				....					
C 218	CCSOUJ180J50	0707	2SC2712				....					
C 222	CEAR47M50LS2	0708	DTC124ES				....					
C 225 232	CKSQYB473K25	0913	DTC143ES				DTC124ES					
C 228 705	CEA220M16LS	D457	....				ISS133					
C 229 230 701 709	CKSQYB223K50	D701, 702	1SS133				....					
C 231	COPA431G2A	D951, 956, 969	1SS133				....					
C 251 252	CKSQYB102K50	L701	LAUR68M				....					
C 253 254 957	CEA2R2M50LS2	T202	CTB1008				CTB1004					
C 255	CEA470M10LS	T207	....				CTB1059					
C 256 262 557 558	CEA470M10L2	T208, 209	....				CTB1062					
C 257 258	CKSQYB103K50	T210	CTB1061				....					
C 261 555 556	CEA221M10L2	X702	CSS1022				CTB1060					
C 351 352 704 714	CEA100M16L2	VR701	VRMB6VS221				....					
C 353	CEA4R7M35L2											
C 461 462	CEA2R2M50LS2											
C 463 464	CEAR22M50L2											
C 465 466	CKSQYB152K50											
C 468	CEA010M50LS2											
C 471 472	CKSQYB473K50											
C 503	CCH1005											
C 551 552	CKSQYB102K50											
4.7 μF/16V												

## RESISTORS

Circuit Symbol & No.	KE-1700SDK/WG	KE-1730B/EW	KE-1700B/IT
	Part No.	Part No.	Part No.
R206, 207, 215	.....	RD1/4PS474JL	.....
R208, 209, 213, 218	.....	RD1/4PS561JL	.....
R212	.....	RD1/4PS104JL	.....
R214	.....	RS1/10S821J	.....
R216, 217	.....	RS1/10S474J	.....
R224	RS1/10S0R0J	.....	RS1/10S0R0J
R476	RS1/10S2R7J	RS1/10S0R0J	RS1/10S0R0J
R481	RD1/4PS102JL	RD1/4PS222JL	RD1/4PS222JL
R485	RD1/4PS102JL	.....	.....
R501	RD1/4PS472JL	RD1/4PS222JL	RD1/4PS472JL
R502	.....	RD1/4PS222JL	.....
R507	.....	RD1/4PS331JL	.....
R701, 713, 719, 729	RS1/10S473J	.....	.....
R702	RS1/10S472J	.....	.....
R703, 704, 705, 717, 739	RS1/10S104J	.....	.....
R706, 736	RS1/10S223J	.....	.....
R735	RS1/BS223J	.....	.....
R707	RS1/10S181J	.....	.....
R708, 710, 711, 734	RS1/10S102J	.....	.....
R709, 732	RD1/4PS223JL	.....	.....
R712	RS1/10S561J	.....	.....
R714, 716, 728	RS1/10S103J	.....	.....
R715	RD1/4PS472JL	.....	.....
R718	RS1/10S182J	.....	.....
R720	RS1/10S222J	.....	.....
R721	RS1/10S0R0J	.....	.....
R722	RS1/10S682J	.....	.....
R723	RD1/4PS152JL	.....	.....
R724	RD1/4PS153JL	.....	.....
R725, 727	RS1/10S0R0J	.....	.....
R726	RS1/10S564J	.....	.....
R730	RS1/10S823J	.....	.....
R731	RS1/10S123J	.....	.....
R737	RS1/BS473J	.....	.....
R738	RS1/BS103J	.....	.....
R955	RD1/4PS472JL	RD1/4PS473JL	RD1/4PS473JL
R967	RS1/10S103J	RS1/10S0R0J	RS1/10S0R0J

## CAPACITORS

Circuit Symbol & No.	KE-1700SDK/WG	KE-1730B/EW	KE-1700B/IT
	Part No.	Part No.	Part No.
C165	CKSOYB102K50	.....	.....
C210, 211, 220, 221	.....	CKSOYF473Z50	.....
C212	.....	CCSORH101J50	.....
C213	.....	CCSOCH180J50	.....
C214	.....	COPA331G2A	.....
C215	.....	CCSORH820J50	.....
C217	CCSORH101J50	CKSQYB23K50	CCSORH101J50
C219	.....	CCSQSH390J50	.....
C231	COPA431G2A	.....	COPA431G2A
C501	.....	CEAR47M50LS2	.....
C701, 709	CKSOYB223K50	.....	.....
C702, 703	CKSQYB391K50	.....	.....
C704, 714	CEA100M16L2	.....	.....
C705	CEA220M16LS	.....	.....
C706, 717	CKSQYB222K50	.....	.....
C707, 713, 724	CEA470M16LS	.....	.....
C708	CCSQSL271J50	.....	.....
C710	CKSQYF473Z50	.....	.....
C711, 722	CKSQYF473Z25	.....	.....
C712	CEA010M50LS2	.....	.....
C715, 716	CQMA102J50	.....	.....
C718	CQMA683J50	.....	.....
C719	CEAR33M50LS2	.....	.....
C720, 721	CQMA473J50	.....	.....
C723	CEA471M16L2	.....	.....
C903	CEA331M16L2	CEA102M16L2	CEA102M16L2
C921	CCSQSL101J50	.....	CCSQSL101J50
C922	CKDYB391K50	.....	CKDYB391K50
C923, 924, 925	CKPYF223Z25L	.....	CKPYF223Z25L
C953	.....	CKSQYF473Z50	CKSQYF473Z50
C957	CEA2R2M50LS2	.....	.....
C958	CEA220M16LS	.....	.....

